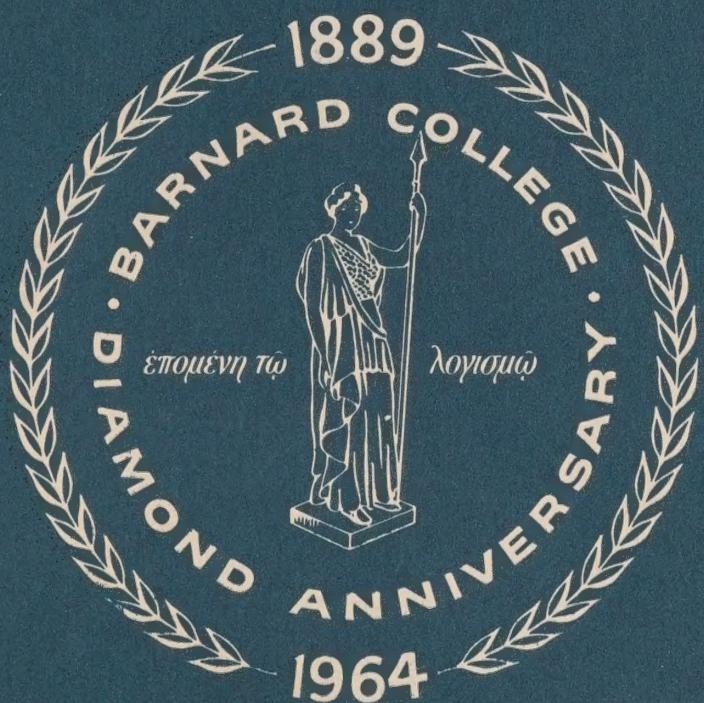


COLUMBIA UNIVERSITY BULLETIN

BARNARD COLLEGE



ANNOUNCEMENT FOR 1963-1964

Sixty-third Series No. 15, April 13, 1963

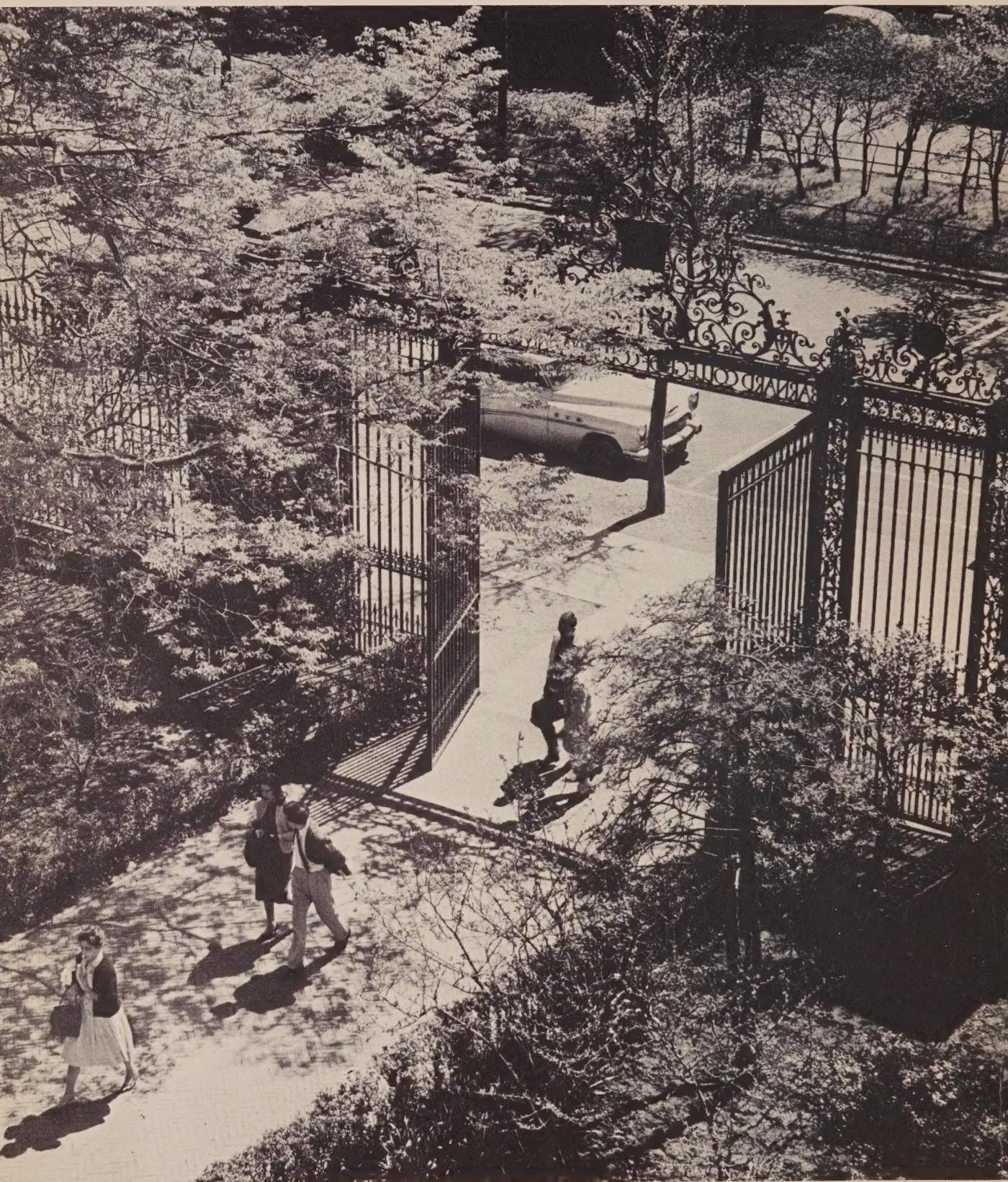
Columbia University Bulletin of Information

SIXTY-THIRD SERIES, No. 15

APRIL 13, 1963

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26,000-1963



Jack Mitchell

BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1963 - 1964

MORNINGSIDE HEIGHTS

NEW YORK 27, N. Y.

COMMUNICATION WITH THE COLLEGE

The post office address is Barnard College, 606 West 120th Street, New York 27, N. Y. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College; gifts or bequests: the General Secretary

Admission to the freshman class or with advanced standing; information about financial aid for entering students; requests for catalogues: the Director of Admissions

Financial aid and loan funds for students in college: the Dean of Studies

Academic work of students: the Class Advisers

Health: the College Physician

Housing; student activities: the Director of College Activities

Opportunities for self-help; recommendations for employment: the Placement Office

Payment of college bills: the Bursar

Requests for transcripts; notice of withdrawal: the Registrar

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

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I. College Calendar

Sept. 16 Monday. Final payments due, Autumn Term.

Sept. 23 Monday, through Sept. 25, Wednesday. Deficiency examinations. Registration in person for Autumn term.

Sept. 26 Thursday. Autumn Term, seventy-fifth year begins. Classes begin, 9 a.m. Convocation, 1 p.m.

Nov. 1 Friday. Last day for filing statement of candidacy for the degree in February 1964.

Nov. 5 Tuesday. Election Day. Holiday.

Nov. 26 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.

Nov. 28 Thursday, through Dec. 1, Sunday. Thanksgiving holidays.

Dec. 5 Thursday. Required meetings for planning programs.

Dec. 21 Saturday, through January 5, 1964, Sunday. Christmas holidays. Residence halls closed.

Jan. 12 Sunday. Annual Commemoration Service in St. Paul's Chapel.

Jan. 15 Wednesday. Final payments due, Spring Term.

Jan. 20 Monday. Mid-year examinations begin.

Jan. 30 Thursday. Autumn Term ends.

Jan. 31 Friday. Language placement tests for transfers.

Feb. 3 Monday and Feb. 4, Tuesday. Registration in person for Spring Term. Last day for filing applications for financial aid.

Feb. 5 Wednesday. Spring Term begins. Classes begin, 9 a.m.

Feb. 21 Friday. Holiday. Observance of Washington's Birthday.

Feb. 28 Friday. Last day for filing statement of candidacy for the degree in June 1964.

Mar. 28 Saturday, through April 5, Sunday. Spring holidays.

Apr. 16 Thursday. Required meetings for planning programs.

May 15 Friday. Last day for filing statement of candidacy for the degree in October 1964.

May 18 Monday. Final examinations begin.

May 28 Thursday. Spring Term ends.

May 31 Sunday. Baccalaureate Service.

June 2 Tuesday. Conferring of degrees.

July 6 Monday. Sixty-fifth Summer Session of Columbia University begins.

Aug. 14 Friday. Sixty-fifth Summer Session ends.

Sept. 24 Thursday. Autumn Term, seventy-sixth year begins. Classes begin 9 a.m. Convocation, 1 p.m.

SEPTEMBER, 1963

S	M	T	W	T	F	S
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29	30					

OCTOBER, 1963

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NOVEMBER, 1963

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DECEMBER, 1963

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JANUARY, 1964

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**CALENDAR
FOR 1963-1964****FEBRUARY, 1964**

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JUNE, 1964

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MARCH, 1964

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22	23	24	25	26	27	28
29	30	31				

JULY, 1964

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26	27	28	29	31		

APRIL, 1964

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AUGUST, 1964

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30	31					

JANUARY, 1964

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MAY, 1964

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24	25	26	27	28	29	30
31						

SEPTEMBER, 1964

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



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II. Organization

TRUSTEES OF BARNARD COLLEGE FOR 1963

SAMUEL R. MILBANK, *Chairman*

FRANCIS T. P. PLIMPTON, *Vice-Chairman*

WALLACE S. JONES, *Vice-Chairman*

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MRS. LEIGHTON COLEMAN

MRS. JOHN ELLIOTT, JR.

MRS. WILLIAM T. GOSSETT

ROBERT L. HOGUET, JR.

ROBERT S. HUTCHINS

PRESIDENT GRAYSON KIRK, *ex officio*

WILLIAM H. MATHERS

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MRS. OGDEN R. REID

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CHARLES E. SALTZMAN

MRS. ARTHUR H. SULZBERGER

RAWLEIGH WARNER, JR.

R. GORDON WASSON

MRS. FREDERICK J. WOODBRIDGE

HENRY M. WRISTON

MISS FRANCES K. MARLATT, *Alumnae Trustee*

MRS. WALT W. ROSTOW, *Alumnae Trustee*

MRS. MARK VAN DOREN, *Alumnae Trustee*

MRS. WILLIAM P. WHITE, *Alumnae Trustee*

MRS. OGDEN REID, *Trustee Emeritus*

Faculty Representatives to Meet with Trustees

PROFESSOR JOHN A. KOUWENHOVEN

PROFESSOR LOUISE G. STABENAU

BARNARD COLLEGE

THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B., Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

ROSEMARY PARK, 1962, President of Barnard College and Dean in the University

A.B., Radcliffe; Ph.D., Cologne; LL.D.; Litt.D.; L.H.D.

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics

B.S., United States Naval Academy; A. M., Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of French

A.B., Barnard; A.M., Ph.D., Columbia

BARBARA S. SCHMITTER, 1957, Associate Dean of Studies and Assistant Professor of Psychology

A.B., Nebraska; A.M., Columbia

JANET ADAM SMITH, 1960-61; 1963, Visiting Professor of English

B.A., Oxford; LL.D.

MARY MOTHERSILL, 1963, Visiting Associate Professor of Philosophy

B.A., Toronto; A.M., Ph.D., Radcliffe

REINHOLD NIEBUHR, 1963, Virginia C. Gildersleeve Visiting Professor

B.D., A.M., Yale; LL.D., Litt.D., D.D.

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

¹HELEN H. BACON, 1961, Associate Professor of Greek and Latin

A.B., Ph.D., Bryn Mawr

²BERNARD BARBER, 1952, Professor of Sociology

A.B., A.M., Ph.D., Harvard

²LUCENA J. BARTH, 1955, Assistant Professor of Zoology

A.B., A.M., Missouri; Ph.D., Columbia

JOSEPH GERARD BRENNAN, 1947, Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

LE ROY C. BREUNIG, 1953, Professor of French

A.B., DePauw; Ph.D., Cornell

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

¹ Absent on leave, 1963-64.

² Absent on leave, Spring Term.

THE FACULTY

SYLVIA M. BROADBENT, 1961, Assistant Professor of Anthropology
A.B., Ph.D., California

SIDNEY A. BURRELL, 1947, Associate Professor of History
A.B., Chicago; Ph.D., Columbia

MARIANNA BYRAM, 1926, Assistant Professor of Art History
A.B., Barnard; A. M., Radcliffe

DEMETRIOS CARALEY, 1961, Assistant Professor of Government
A.B., Ph.D., Columbia

GENEVIEVE CHINN, 1958, Assistant Professor of Music
B.S., A.M., Columbia

²ANN CHOWNING, 1958, Assistant Professor of Anthropology
A.B., Bryn Mawr; A.M., Ph.D., Pennsylvania

^{1, 2}WILLIAM A. CORPE, 1956, Associate Professor of Botany
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State

BARBARA M. CROSS, 1959, Assistant Professor of English
A.B., Smith; A.M., Yale; Ph.D., Radcliffe

ELIZABETH CZONICZER, 1952, Assistant Professor of French
Absolut., Budapest; A.M., Chicago; Ph.D., Columbia

MARGARITA U. DA CAL, 1943, Associate Professor of Spanish
Bach., Instituto-Escuela de Madrid; A.M., Ph.D., Columbia

INGRITH J. DEYRUP, 1947, Professor of Zoology
A.B., Barnard; Ph.D., Columbia

³HUBERT DORIS, 1957, Assistant Professor of Music
A.B., Harvard; A.M., Columbia

PATRICIA L. DUDLEY, 1959, Assistant Professor of Zoology
A.B., A.M., Colorado; Ph.D., Washington

JOANNE ELLIOTT, 1955, Associate Professor of Mathematics
A.B., Pembroke; A.M., Ph.D., Cornell

EUGENIO FLORIT, 1945, Professor of Spanish
D. en D., Havana

RENÉE CLAIRE FOX, 1955, Assistant Professor of Sociology
A.B., Smith; Ph.D., Radcliffe

²LAURA R. DE GARCÍA-LORCA, 1948, Associate Professor of Spanish
Lic. en F., Madrid; Ph.D., Columbia

¹ Joint appointment with Columbia.

² Absent on leave 1963-64.

³ Absent on leave, Spring Term.

BARNARD COLLEGE

RENÉE GEEN, 1956, Assistant Professor of French
A.B., Brooklyn; A.M., Wisconsin; Ph.D., Columbia

MARION HAMILTON GILLIM, 1952, Professor of Economics
A.B., Mount Holyoke; A.M., Ph.D., Columbia

DANIEL A. GREENBERG, 1959, Assistant Professor of Physics
B.S., Hebrew University; A.M., Ph.D., Columbia

TATIANA GREENE, 1946, Assistant Professor of French
Candid. en Droit, Brussels; A.M., Ph.D., Columbia

W. CABELL GREET, 1926, McIntosh Professor of English
A.B., University of the South; A.M., Ph.D., Columbia; Litt.D.

VIRGINIA D. HARRINGTON, 1942, Associate Professor of History
A.B., Barnard; A.M., Ph.D., Columbia

WILLIAM A. HAVILAND, 1963, Assistant Professor of Anthropology
A.B., A.M., Pennsylvania

JULIUS S. HELD, 1937, Professor of Art History
Ph.D., Freiburg

MARGARET HOLLAND, 1926, Professor of Physical Education
B.S., A.M., Columbia

LUCYLE HOOK, 1949, Associate Professor of English
A.B., B.S., Texas Woman's University; A.M., Columbia;
Ph.D., New York

URSULA L. JARVIS, 1956, Assistant Professor of German
A.B., Barnard; A.M., Ph.D., Columbia

¹TRACY S. KENDLER, 1954, Associate Professor of Psychology
A.B., Brooklyn; A.M., Ph.D., State University of Iowa

MICHAEL G. KENNEDY, 1961, Assistant Professor of Psychology
B.A., (Cantab.); Ph.D., Columbia

EDWARD J. KING, 1946, Professor of Chemistry
A.B., State University of Iowa; Ph.D., Yale

RUTH MONTGOMERY KIVETTE, 1952, Assistant Professor of English
A.B., Barnard; A.M., Ph.D., Columbia; B.D., Union Theological
Seminary

MARCUS KLEIN, 1952, Assistant Professor of English
A.B., Western Reserve; A.M., Ph.D., Columbia

RENÉE J. KOHN, 1952, Associate Professor of French
Docteur ès Lettres; Agrégée de l'Université

¹ Absent on leave, 1963-64.

THE FACULTY

MIRRA KOMAROVSKY, 1934, Professor of Sociology
A.B., Barnard; A.M., Ph.D., Columbia

JOHN KOUWENHOVEN, 1946, Professor of English
A.B., Wesleyan; A.M., Ph.D., Columbia

¹POLYKARP KUSCH, 1962, Professor of Physics
B.S., Case Institute; M.S., Ph.D., Illinois; Nobel Laureate; Sc.D.

²MARION LAWRENCE, 1929, Professor of Art History
A.B., Bryn Mawr; A.M., Ph.D., Radcliffe

ROBERT LEKACHMAN, 1947, Associate Professor of Economics
A.B., Ph.D., Columbia

LYDIA H. LENAGHAN, 1962, Assistant Professor of Greek and Latin
A.B., Barnard; A.M., Ph.D., Bryn Mawr

EDGAR R. LORCH, 1937, Professor of Mathematics
A.B., Ph.D., Columbia

MARISTELLA DE PANIZZA LORCH, 1951, Associate Professor of Italian
Dott. in Lett. e Filos., Rome

OTTO LUENING, 1944, Professor of Music on the Joline Foundation
Royal Academy of Music, Munich; University of Zurich

JANE G. MAHLER, 1935, Associate Professor of Art History
A.B., Wisconsin, A.M., Ph.D., Columbia

JOHN MESKILL, 1960, Assistant Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia

ANDRÉ MESNARD, 1936, Associate Professor of French
A.B., A.M., Columbia

GLADYS MEYER, 1948, Associate Professor of Sociology
A.B., Wellesley; Ph.D., Columbia

¹JOHN A. MOORE, 1943, Professor of Zoology
A.B., A.M., Ph.D., Columbia

PHOEBE MORRISON, 1952, Professor of Government
A.B., Vassar; LL.B., George Washington; J.S.D., Yale

JOANN RYAN MORSE, 1957, Assistant Professor of English
A.B., Vassar; A.M., Yale

URSULA M. NIEBUHR, 1940, Associate Professor of Religion
B.A., M.A., Oxford; S.T.M., Union Theological Seminary

¹ Joint appointment with Columbia.

² Absent on leave, 1963-64.

BARNARD COLLEGE

²RICHARD A. NORMAN, 1954, Associate Professor of English
A.B., George Washington; A.M., Ph.D., Columbia

BARBARA NOVAK, 1958, Assistant Professor of Art History
A.B., Barnard; A.M., Ph.D., Radcliffe

REMINGTON P. PATTERSON, 1955, Assistant Professor of English
A.B., A.M., Ph.D., Yale

²THOMAS P. PEARDON, 1923, Professor of Government
B.A., British Columbia; A.M., Clark; Ph.D., Columbia

MARION R. PHILIPS, 1945-55; 1958, Assistant Professor of Physical
Education
A.B., Hunter; A.M., Columbia

ALAN C. PURVES, 1961, Assistant Professor of English
A.B., Harvard; A.M., Ph.D., Columbia

BASIL RAUCH, 1941, Professor of History
A.B., Notre Dame; Ph.D., Columbia

DONALD D. RITCHIE, 1948, Professor of Botany
A.B., B.S., Furman; A.M., Ph.D., North Carolina

DAVID A. ROBERTSON, JR., 1940, Professor of English
A.B., A.M., Ph.D., Princeton

ELEANOR ROSENBERG, 1953, Professor of English
A.B., Barnard; A.M., Ph.D., Columbia

GERTRUD M. SAKRAWA, 1952, Assistant Professor of German
A.M., Columbia; Ph.D., Vienna

RAYMOND J. SAULNIER, 1938, Professor of Economics
B.S., Middlebury; A.M., Tufts; Ph.D., Columbia

HENRY S. SHARP, 1941, Professor of Geology
A.B., Cornell; A.M., Ph.D., Columbia

LOUISE G. STABENAU, 1925, Associate Professor of German
Abitur, Bremen; A.M., Columbia

¹HAROLD STAHLER, 1957, Associate Professor of Religion
A.B., Dartmouth; B.D., Union Theological Seminary;
Ph.D., Cambridge

EMMA DIETZ STECHER, 1945, Professor of Chemistry
A.B., Barnard; A.M., Columbia; Ph.D., Bryn Mawr

MARION STRENG, 1930, Associate Professor of Physical Education
B.S., Wisconsin; A.M., Columbia

¹ Joint appointment with Columbia.

² Absent on leave, Spring Term.

THE FACULTY

¹WALTER C. STRODT, 1962, Professor of Mathematics
A.B., A.M., Ph.D., Columbia

HOWARD M. TEICHMANN, 1946, Adjunct Associate Professor of English
A.B., Wisconsin

THOMAS TIGHE, 1958, Assistant Professor of Psychology
A.B., Trinity; Ph.D., Cornell

²ELEANOR M. TILTON, 1950, Professor of English
A.B., Mount Holyoke; A.M., Boston; Ph.D., Columbia

BARRY ULANOV, 1951, Associate Professor of English
A.B., Ph.D., Columbia

CHILTON WILLIAMSON, 1942, Professor of History
A.B., A.M., Ph.D., Columbia

GEORGE WOODBRIDGE, 1960, Assistant Professor of History
A.B., A.M., Columbia; Ph.D., Wisconsin

²FERN W. YATES, 1927, Associate Professor of Physical Education
A.B., Barnard; A.M., Columbia

RICHARD YOUTZ, 1940, Professor of Psychology
A.B., Carleton; Ph.D., Yale

LEONARD ZOBLER, 1955, Associate Professor of Geography
B.S., M.S., State College of Washington; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller
B.S., Southwest Missouri State Teachers; A.M., Ed.D., Columbia

ESTHER GREENE, 1944, Librarian
A.B., Grinnell; B.S., Simmons

HELEN LAW, 1952, Registrar and Secretary to the Faculty
A.B., College of New Rochelle

MARJORY J. NELSON, 1948, College Physician
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary
A.B., Bryn Mawr

SARAH KATHARINE THOMSON, 1955, Reference Librarian
A.B., Agnes Scott; M.S., Columbia

¹ Joint appointment with Columbia.

² Absent on leave, Spring Term.

BARNARD COLLEGE

FACULTY EMERITI

VIRGINIA C. GILDERSLEEVE, 1900-1947, Dean Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

IDA H. OGILVIE, 1906-1941, Professor Emeritus of Geology
Ph.D

MARGUERITE MESPOULET, 1934-1947, Professor Emeritus of French
Agrégée de l'Université

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English
Ph.D

WILLIAM HALLER, 1909-1950, Professor Emeritus of English
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of
Zoology., Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German
Ph.D.

HELEN R. DOWNES, 1933-1960, Professor Emeritus of Chemistry
Ph.D.

AMELIA A. DE DEL RÍO, 1930-1962, Professor Emeritus of Spanish
Ph.D.

MILICENT C. MC INTOSH, 1947-1962, President Emeritus
Ph.D.; LL.D.; Litt.D.; L.H.D.

OTHER OFFICERS OF INSTRUCTION

RICHARD G. ABELL, 1962, Lecturer in Mental Hygiene
A.B., Swarthmore; A.M., Ph.D., M.D., Pennsylvania

NATHALIE BABEL, 1961, Instructor in French
B. ès L., Brussels

JERRY M. BANK, 1963, Assistant in Mathematics
B.S., Rensselaer Polytechnic Institute

ANNETTE K. BAXTER, 1952, Associate in History
A.B., Barnard; A.M., Smith; A.M., Radcliffe; Ph.D., Brown

HOWARD BERNTSEN, 1962, Lecturer in English
A.B., Wagner; A.M., Columbia; M.A., Leeds

THE FACULTY

BRIGITTE L. BRADLEY, 1962, Lecturer in German
A.B., William and Mary; D. d'Université, Strassbourg;
A.M., Columbia

RACHEL MAYER BROWNSTEIN, 1962, Lecturer in English
A.B., Barnard; A.M., Yale

DOMNA CALLIMANOPULOS, 1962, Lecturer in French
A.B., Wellesley; A.M., Columbia

HELEN M. CARLSON, 1942, Associate in French
A.B., Grinnell; A.M., Columbia

PATRICIA CARPENTER, 1961, Assistant in Music
A.B., California

VERA CARPOVICH, 1962, Lecturer in Russian
B.S., Columbia

PHYLLIS J. CASSIDY, 1962, Teaching Assistant in Mathematics
B.S., Columbia

ELIZABETH LOUISE CAUGHRAN, 1956, Associate in English
A.B., Russell Sage; A.M., Columbia

MARY ANN CAWS, 1962, Lecturer in French
A.B., Bryn Mawr; A.M., Yale; Ph.D., Kansas

ELIZABETH CONSTANTINIDES, 1959, Instructor in Greek and Latin
A.B., Barnard; A.M., Columbia

TANIA M. COSMAN, 1962, Lecturer in Russian
A.M., Middlebury

JACQUELINE DESREZ, 1962, Lecturer in French
L. ès L., Sorbonne

MARJORIE HOUSEPIAN DOBKIN, 1957-59; 1960, Lecturer in English
A.B., Barnard

JULIA G. EBEL, 1962, Lecturer in English
A.B., Barnard; A.M., Columbia

MARY C. EFTHIMION, 1961, Assistant in Botany
A.B., Our Lady of the Elms; A.M., Boston College

LOIS J. ENGELSON, 1962, Assistant in Art History
A.B., Barnard

JANICE FARRAR, 1956, Instructor in English
A.B., Barnard; A.M., Columbia

MARTHA FOLEY, 1962, Lecturer in English

BARNARD COLLEGE

VICTOR FUENTES, 1961, Instructor in Spanish
A.M., New York University

KRISTIN M. A. GALLAGHER, 1962, Assistant in Chemistry
M.A., B.Sc., Somerville College, Oxford

SERGE GAVRONSKY, 1960, Instructor in French
A.B., A.M., Columbia

SANDRA GENTER, 1961, Instructor in Physical Education
A.B., Wisconsin

HELMUT GUTMANN, 1960, Instructor in German
Abitur, Fulda; A.M., Columbia

DANIELLE HAASE-DUBOSC, 1962, Lecturer in French
A.B., Barnard; A.M., Columbia

MARGARET HANCE, 1955, Assistant in English
A.B., Wittenberg

LINCOLN HANSON, 1962, Lecturer in Psychology
A.B., Brown; Ph.D., Columbia

LILLIAN E. HARTMANN, 1961, Assistant in Physics
A.B., Barnard

BARBARA K. HÉNON, 1962, Assistant in Zoology
A.B., Mount Holyoke

JUDITH-MARIA HESS, 1962, Assistant in Anthropology
A.B., Barnard

GWEN HOCKMAN, 1961, Instructor in Physical Education
B.S., Madison

SUSAN I. JACOBS, 1961, Assistant in Physics
A.B., Barnard

KENNETH H. JANES, 1961, Lecturer in English and
Director of the Minor Latham Playhouse

LOUISE JEFFERSON, 1961, Instructor in French
A.B., Hunter; A.M., Illinois

SHIRLEY B. JOHNSON, 1962, Instructor in Economics
A.B., Radcliffe; M.A., Edinburgh

SABINE D. JORDAN, 1962 Lecturer in German
A.B., A.M., New School for Social Research

CAROLE ANN KENDIG, 1962, Assistant in Psychology
A.B., New York

THE FACULTY

LYDIA W. KESICH, 1959, Instructor in Russian
A.B., Vassar; A.M., Columbia

JIMMYE ELIZABETH KIMMEY, 1956, Instructor in Government
A.B., Texas; A.M., Columbia

GRACE W. KING, 1960, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale

CAROL E. KORNFIELD, 1961, Assistant in Chemistry
B.S., Pennsylvania State; A.M., Columbia

PATRICIA H. LABALME, 1961, Lecturer in History
A.B., Bryn Mawr; A.M., Ph.D., Radcliffe

JANE LANCASTER, 1954, Instructor in Geology
A.B., Barnard; A.M., Ph.D., Columbia

BETTY LEVINE, 1962, Assistant in Mathematics
A.B., Hunter

NAOMI LOEB LIPMAN, 1961, Lecturer in English
A.B., Barnard; A.M., Columbia

JAMES G. MC ELLIGOTT, 1962, Assistant in Psychology
B.S., Fordham

PETER F. MAC NEILAGE, 1961, Lecturer in Psychology
B.A., M.A., Canterbury; Ph.D., McGill

MARIAN S. MARKOW, 1960, Lecturer in Government
A.B., Barnard

CHANINAH MASCHLER, 1962, Instructor in Philosophy
A.B., C.C.N.Y.; A.M., Yale

EDITH G. MASON, 1956, Associate in Physical Education
B.S., Winthrop; M.S., Louisiana State

BARBARA MATES, 1962, Assistant in Psychology
A.B., A.M., Brooklyn

JOSEPHINE MAYER, 1956, Associate in Education and
Director of the Education Program
B.S., A.M., Columbia

HERBERT MENZEL, 1962, Lecturer in Sociology
A.B., Ph.D., Wisconsin; A.M., Indiana

CHARLES E. MILLER, 1962, Assistant in Chemistry
B.S., Columbia

BARNARD COLLEGE

STANLEY MOORE, 1960, Associate in Philosophy
A.B., Ph.D., California

NATHALIE S. NABOKOFF, 1961, Lecturer in Russian

HOWARD I. NEEDLER, 1963, Instructor in Italian
B.S., Yale; B.A., Oxford

CHRISTINA R. NICHOLSON, 1962, Assistant in Chemistry
A.B., Mount Holyoke

ELEANOR L. NOBACK, 1961, Assistant in Botany
A.B., Oberlin; A.M., Western Reserve

HERMINE OBERFEST, 1961, Lecturer in French
A.B., Hunter; A.M., Columbia

ROBERT FISHER OLSON, 1963, Lecturer in Religion
A.B., George Washington

ROBERT PACK, 1957, Associate in English
A.B., Dartmouth; A.M., Columbia

JANET M. READ, 1962, Assistant in Psychology
A.B., Douglass

JOAN S. RODMAN, 1962, Lecturer in English
A.B., Michigan; A.M., Columbia

ELECTA ARENAL DE RODRÍGUEZ, 1960, Instructor in Spanish
A.B., Barnard; A.M., Columbia

ROBERT J. ROGERS, 1961, Assistant in Psychology
B.S., Columbia

AMÉLIE RORTY, 1962, Lecturer in Philosophy
A.B., Chicago; A.M., Ph.D., Yale

LINDA SCHREIBER, 1962, Assistant in Zoology
A.B., Bryn Mawr

BERNICE SEGAL, 1958, Lecturer in Chemistry
A.B., Radcliffe; Ph.D., Columbia

LINDA SEIDEL, 1963, Instructor in Art History
A.B., Barnard; A.M., Radcliffe

KATHLEEN R. SPEETH, 1959, Assistant in Psychology
A.B., Barnard

ELLEN TERRY, 1962, Lecturer in English and Technical Director,
Minor Latham Playhouse
A.B., Denver; M.F.A., Yale

OFFICERS OF ADMINISTRATION

PATRICIA TERRY, 1958, Lecturer in French
A.B., Wellesley; A.M., Ph. D., Columbia

ZOYA A. TRIFUNOVICH, 1959, Lecturer in Russian
B.S., Columbia

BEATRICE G. WERDEN, 1962, Assistant in Chemistry
B.S., C.C.N.Y.

PATRICIA WHALEN, 1963, Assistant in Geology
A.B., Hunter

FRANK T. WHITE, 1962, Assistant in Religion
A.B., Erskine; A.M., Columbia

E. BELVIN WILLIAMS, 1962, Lecturer in Psychology
A.B., Denver; A.M., Ph.D., Columbia

ELINOR YUDIN, 1962, Assistant in Economics
A.B., BARNARD

OFFICERS OF ADMINISTRATION

ROSEMARY PARK, Ph.D., LL.D., Litt.D., L.H.D.
President of Barnard College and Dean in the University

HENRY A. BOORSE, Ph.D.
Dean of the Faculty and Professor of Physics

HELEN PHELPS BAILEY, Ph.D.
Dean of Studies and Associate Professor of French

BARBARA S. SCHMITTER, A.M.
Associate Dean of Studies and Assistant Professor of Psychology

JEAN T. PALMER, A.B.
General Secretary

FORREST L. ABBOTT, Ed.D.
Treasurer and Controller

OFFICE OF THE PRESIDENT

DOROTHY H. HEFFERLINE, A.M.
Executive Secretary

OFFICE OF THE DEANS

MARIANNA BYRAM, A.M.
Adviser to the Class of 1966

JULIA HIRSCH EBEL, A.M.
Adviser to the Class of 1966

TO BE APPOINTED
Adviser to the Class of 1967

BARNARD COLLEGE

DOROTHY E. FOX, A.B.

Adviser to Foreign Students and Assistant to the Dean of the Faculty

ADMISSIONS

HELEN M. MC CANN, A.B.

Director

MARGARET DYKES DAYTON, A.M.

Associate Director

ASSOCIATE ALUMNAE

MARY A. BLISS, A.B.

Executive Secretary

BURSAR

FRANCES A. BARRY, M.S.

Bursar

CHAPLAIN OF THE UNIVERSITY

JOHN M. KRUMM, Ph.D., B.D.

COLLEGE ACTIVITIES

MADELINE D. JENKINS, R.N., A.M.

Director

DEVELOPMENT OFFICE

JEAN T. PALMER, A.B.

Director

DOROTHY COYNE WEINBERGER, A.B.

Director, Barnard Fund

JEAN P. NORTH, A.B.

Secretary for Parents' Program

FOOD SERVICES

ELEANOR R. SMITH, B.S.

Director

HEALTH

MARJORY J. NELSON, M.D.

College Physician

RICHARD G. ABELL, M.D.

Consulting Psychiatrist

A. LOUISE BRUSH, M.D.

Consulting Psychiatrist

THEODORE J. JACOBS, M.D.

Consulting Psychiatrist

LILO R. GROTHE, M.S., Ph.D.

Psychiatric Counselor

LELA ANDERSON, R.N.

Nurse

BEATRICE G. TUCKER, R.N.

Nurse

CHARLES L. GILBERT, M.D.

University Medical Officer

OFFICERS OF ADMINISTRATION

LIBRARY

ESTHER GREENE, A.B., B.S.	Librarian
SARAH KATHARINE THOMSON, M.S.	Reference Librarian
LOIS D. NOVAS, M.S.	Circulation Librarian
NATALIE SONEVYTSKY, M.S.	Assistant Reference Librarian
MARY J. KELLY, M.S.	Order Librarian
JUDITH W. TAYLOR, M.S.	Reserve Librarian
PATRICIA K. BALLOU, A.B., B.S.	Assistant Reference and Circulation Librarian

MAINTENANCE AND OPERATION

JOHN KISSLING	Manager
---------------	---------

PLACEMENT

ETHEL S. PALEY, A.B.	Director
LEONORE POCKMAN, A.B.	Assistant Director

PUBLIC RELATIONS

LILA ROSENBLUM, A.B.	Director
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PURCHASING

MARY BANE	Manager
-----------	---------

REGISTRAR

HELEN LAW, A.B.	Registrar and Secretary to the Faculty
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RESIDENCE

HARRIET P. VAN SICKLE, A.B.	Director
BARBARA PAGE, A.B.	Assistant Director

III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the crusade, waged so ardently in the late nineteenth century, to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in the royal charter granted by George II in 1754 to the Governors of the College of the Province of New York, creating them a Body Corporate to erect and maintain King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences." The Revolutionary War interrupted its active work when its buildings were requisitioned by the Continental Armies, but in 1784 it was re-opened as Columbia College. In 1896 it was designated a university, and in 1912 its title was legally changed to Columbia University in the City of New York.

Barnard College had its inception in an idea, proposed in 1879 to the Trustees of Columbia by its tenth president, Frederick A. P. Barnard. It was his conviction that "in the interests of society the mental culture of women should be not inferior in character to that of men," and that young women should, therefore, be admitted to Columbia College. This thought which "failed to attract the serious attention of the Trustees," was, nevertheless, rigorously developed by President Barnard, and in 1883 a petition signed by over a thousand citizens of New York culminated in the inauguration of the "Collegiate Course for Women." Women who passed "a very strict entrance examination" were authorized to follow a prescribed course, but were left "entirely free as to where or how to carry on [their] studies, whether in some school, private or public, or at home, or under the auspices or direction of any association interested in [their] welfare and advancement." "Suitable academic honors and distinctions" were awarded to those who on examination were found to have pursued such courses with success. This system was destined to please no one, neither the young women whose search for instruction was made so difficult, nor Columbia College whose degree could thus be conferred on the strength of examinations only. Six years later when Certain Friends of the Higher Education of Women presented still another proposal to Columbia's Trustees, cooperation was obtained for the establishment of an affiliated college for women. A provisional charter was granted by the State of New York, promise of funds for the first four years was secured, and its name, in honor of its most prophetic and persistent advocate, was chosen.

AN INTRODUCTION TO THE COLLEGE

In October, 1889, the first class of Barnard College met in a rented "brownstone" house at 343 Madison Avenue with fourteen students enrolled in the School of Arts and twenty-two students in science, who, lacking the entrance requirement in Greek, were known as "specials." Six members of Columbia's staff gave instruction in prescribed subjects: English, French or German, Greek, Latin, and mathematics. A fellow of the University of Pennsylvania, Dr. Emily Gregory, volunteered her services as botanist, and Columbia's sanction of this role was soon bestowed by her appointment as its first woman lecturer.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean; it was responsible for its own endowment and plant; it shared the instruction, the library, and the degrees of a university.

BARNARD TODAY

Barnard today presents rewarding contrast to the pioneer days. The teaching staff of six has grown to more than 200 men and women, some of them members of the University Faculties and some coming to the classrooms from the world of literature, the theatre, and the arts. From the original fourteen matriculated students, enrollment has increased to over 1500; since 1893 Columbia has awarded its degree to 12,965 Barnard students. Pledges of support for the first college generation have expanded to current endowment funds of \$11,290,000.

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to cultivate the liberal arts and sciences, to explore her cultural heritage, to discover and develop her capacity for intellectual adventure, and to establish habits of thought whereby she may utilize her knowledge in all facets of her future life.

Specific requirements for the degree are designed to give some comprehension of the roots of our civilization, and an awareness of the diverse areas of human thought and their interrelationship: courses in humanities enlarge the student's contact with literature and such fields as philosophy, religion, music and fine arts; a year's work in history is required as well as courses which deal with some phase of contemporary society; acquaintance with the ideas and methods of both physical and biological science is considered essential for an informed person in the modern world; finally, competence in at least one foreign

BARNARD COLLEGE

language, to serve as an instrument for understanding and evaluating the achievements of other nationalities and as a basis for communication with peoples whose history and traditions may differ from our own. This comprises the basic curriculum of each student. Assistance in planning her individual course of study is given by her class adviser, a member of the teaching staff who supervises the work of the freshman and sophomore years.

At the end of this period each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and all other phases of the college work. A major is offered by every department and interdepartmental majors may be requested in certain interrelated fields.

Classes vary in size. Language classes are small as are other courses in which student participation is important. All introductory courses and classes taught primarily by the lecture method are divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with a wide variety of modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty. Some undergraduate courses are held with Columbia College and the Department's of Greek and Latin, Italian, Mathematics, Music, Physics, and Religion are conducted jointly with the University. Graduate courses in the University are also open to qualified upper classmen.

THE CAMPUS

The campus now occupies four acres of land adjacent to Columbia between 116th and 120th Streets. The residence halls, Brooks and Hewitt, and Helen Reid Hall which opened in the autumn of 1961, face an open quadrangle. Milbank Hall at the northern end of the campus contains administrative offices and classrooms, the laboratories and libraries of the natural sciences, a greenhouse and an animal house for the use of botany and zoology students, penthouse studios and practice rooms for music, and the Minor Latham Drama Workshop, where drama students and dramatics groups may use the equipment of a modern theatre. The French, German, and Spanish Departments in Milbank Hall have social and reading rooms, furnished by friends of the College with valuable paintings, music records, and books. In Barnard Hall are the gymnasium, the swimming pool and dance studios, English seminar and classrooms, a spacious social center known as the James Room, and the Annex with a lounge and snack bar and quarters for student organizations.

AN INTRODUCTION TO THE COLLEGE

Adele Lehman Hall, a five-story building containing the Wollman Library and classrooms, was opened in the autumn of 1959. The Library was designed to provide for an expanding collection of both book materials and of services, thus to make available opportunities for independent work in advanced courses. It has a growing record collection with ample listening facilities, as well as an audio-visual studio and control room for the recording of tapes and for the use of other audio-visual equipment. The print room offers facilities for the study of photographs and art reproductions. Carrels are provided for individual study, a seminar room for class use of library materials, and small rooms for typing and for informal student discussion. The open shelf arrangement, occupying three and one half floors, has a capacity of 150,000 volumes, and Barnard students have access also to the over 3,000,000 volumes in the University libraries. Offices and seminars of the social science departments and classrooms occupy the top floor. A thirty booth language laboratory on the ground floor is utilized by all language departments and by students of English speech.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. Two thirds of its students live within commuting distance; the remaining third come from nearly every state in the Union and some twenty-five foreign countries. All represent diversity in background and training, and mingling of economic, regional, and cultural strains which find expression in the life of the campus.

The Undergraduate Association, of which all students are members, sponsors extra-curricular activities reflecting the current interests of the entire group: the college newspaper, the literary magazine, dramatics clubs, political and religious clubs, the pre-medical club, and clubs representing many departmental fields. Students from Barnard and Columbia jointly plan the social program of the two colleges, which invites membership in the University Chorus and Orchestra, Barnard's Gilbert and Sullivan Society, and the staff of the University radio station.

The freshman and sophomore festival, Greek Games, is presented in the spring. Themes from classical mythology are portrayed in original dance, music and verse, and an athletic contest is climaxed by a chariot race in which class teams of four "horses" compete in exciting style.

In the college community the Undergraduate Association takes wide responsibility and its members serve on important Faculty-Student committees. All students are automatically under the jurisdiction of

BARNARD COLLEGE

the Honor Code, administered by the Honor Board of the Association, whereby a high standard of honor in examinations and all other phases of college life is maintained.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of contemporary religious and philosophical thought by faculty and guest speakers and students. The devotional life of College and University is centered in St. Paul's Chapel, where week-day and Sunday services are held at which attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith its own traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basket-ball, water ballet, fencing, and modern dance. Intercollegiate Sports Days held throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp, twenty acres of wooded land in Westchester County, was purchased by the alumnae, providing an accessible site for recreation during country week-ends.

NEW YORK IS BARNARD'S LABORATORY

Fifty years ago Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.

IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Students who wish to discuss their plans with a member of the Admissions staff may request an interview at the College in the fall of their senior year, or in their junior year except during the period between March 1 and May 1. Whenever it is possible the College will arrange interviews with alumnae for those students who are unable to visit the campus.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 15 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A non-refundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.
- 2) Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

BARNARD COLLEGE

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree, and should include four years of work in English, three years in one foreign language and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) social studies, science or mathematics. The Scholastic Aptitude Test should be taken in December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) should be taken in December or January of the senior year. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. If the Scholastic Aptitude Test is taken for guidance purposes in the junior year, the scores should be reported to the College.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York 27, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be

ADMISSION

considered on the basis of (1) the recommendation of her school principal or counselor; (2) her three-year record at school; and (3) the results of the required College Board Scholastic Aptitude Test and the Scholastic Achievement Tests taken in her junior year.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in February, a deposit of \$100 if she is to be a non-resident student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1963-64:

Saturday, December 7, 1963
Saturday, January 11, 1964
Saturday, March 7, 1964

Saturday, May 2, 1964
Wednesday, July 8, 1964

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 27896, Los Angeles 27, California.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is

BARNARD COLLEGE

four weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 5.00
One, two, or three Achievement Tests.....	8.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshman year, at the discretion of the departments concerned.

At the conclusion of one year's work at Barnard students who offered the Advanced Placement Program for admission may apply for college credit for this plan. A maximum of 12 points may be awarded.

ADMISSION TO ADVANCED STANDING

Transfer students are admitted in September and in February. Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 36.)

The student should submit with her formal application the following credentials: her secondary school record; a recommendation from her principal and her college dean or class adviser; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15; otherwise, the student may be asked to postpone registration until after classes begin, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. These candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Requests for an examination center overseas should reach the College Board two months prior to the dates listed on the previous pages. Students whose native language is not English should also take the American University Language Center Test. Arrangements for this examination should be made through the nearest United States Consulate.

All foreign students must take English placement tests in writing, aural comprehension, and speech during the week of registration in September or in February. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose home is outside the United States, please see page 165.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

BARNARD COLLEGE

ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

RE-ADMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically re-admitted. She should make application for re-admission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application of any student who has been granted a leave of absence by the Dean of Studies. Credentials are due by December 1 for the spring term, and by May 1 for the autumn term.



Jack Mitchell

NORTH CAMPUS: LEHMAN HALL-WOLLMAN LIBRARY, MILBANK HALL



Brown Bros.

A

University

College

BOTANY AT THE BEGINNING OF THE CENTURY

BROOKS HALL'S FIRST RESIDENTS



in a

World City





Chris Corpus

ZOOLOGY STUDENTS WORK ON AN INDEPENDENT PROJECT

GUESTS ARE ENTERTAINED IN THE REID HALL LIVING ROOM

Jack Mitchell





Henri Dauman

SENIORS RECEIVE THEIR DEGREES AT THE COLUMBIA UNIVERSITY COMMENCEMENT



A JUNIOR CONSULTS
HER MAJOR ADVISER

Rollie McKenna

GREEK GAMES, THE TRADITIONAL FRESHMAN-SOPHOMORE COMPETITION

Jack Mitchell





ART HISTORY CLASS AT
METROPOLITAN MUSEUM
Jack Mitchell

BARNARD AND COLUMBIA STUDENTS AT BROADWAY THEATER

Wm. Hubbell



WALKING BENEATH FLAGS OF MANY LANDS, STUDENTS APPROACH UNITED NATIONS

Chris Corpus





Jack Mitchell

A SPRING TERM CLASS MEETS OUTSIDE BARNARD HALL

V. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points and include the following:

I. English A1—A2

The introductory course, Reading and Writing. (Foreign students please refer to page 31.)

II. Foreign Languages

(a) Competence in one foreign language. This requirement may be fulfilled either by passing a placement examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

(b) One full-year course in a second foreign language if the student has not had the equivalent (two years) in high school. It is advisable to postpone this until the first part of the requirement (a) has been satisfied.

III. Humanities (12 points, or 10 points, if Art History 1—2 is elected without laboratory).

(a) Literature: One full year (6 points) to be studied in the language in which it was written originally, normally the six points to be taken in the same language.

(b) Six points: Art history; literature (in the original or in translation); music; philosophy; religion; (or four points, if Art History 1—2 is taken without laboratory).

IV. Social Sciences (12 points).

(a) History (6 points).

European: 1—2

American: 9—10; 33—34; 45—46; 55—56

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(b) Contemporary Society (6 points).

Anthropology 1, 2

Economics 1-2; 19; 25, 26; 31

Geography 3; 4; W4311x; W4312y; 16E; 16W

Government 1, 2 (both terms); 7, 9; 10; 11; 12; 15; 16; 20

Psychology 38

Religion 25; 26

Sociology 1-2

Unless both terms are indicated, any combination of these courses may be made.

V. Natural Sciences (14-16 points).

Two full-year courses, one of which must include laboratory work (8-10 points). The sciences are divided into two areas. Both areas must be represented, unless mathematics (6 points) is elected to fulfill the non-laboratory science requirement.

Physical

Chemistry

Physical geography

Geology

Physics

Biological

Anthropology (physical)

Botany

Psychology; Any two of these courses: 5; 8; 12; 18; 27; 30

Zoology

VI. Hygiene (2 points).

VII. Speech.

Individual speech test required of all freshmen and transfer students.

VIII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work. Each department requires, as specified, either a senior thesis or a major examination. A major may be chosen in any one field, or in such combinations as are approved by the departments concerned and the Committee on Instruction. Transfer students are required to take a minimum of 18 points in their major at Barnard.

IX. Electives: To be chosen in accordance with the interests and objectives of the student (40 to 44 points).

X. Physical Education (required through the junior year or until senior classification—86 points—is achieved).

All requirements must be completed within six years of the student's matriculation as a freshman at Barnard or elsewhere.

DEGREE REQUIREMENTS

MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others a senior thesis must be written or a senior seminar successfully completed. Specific requirements are listed in the departmental statements, beginning on page 47. At the end of the sophomore year each student chooses her major adviser, with whom she plans all subsequent work in her area of concentration.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are exceptions.) Quality of work is indicated by the following grades: A or A-, excellent; B+, B, B-, good; C+, C, C-, fair; D, poor; F, failure, and P, passed without a specific grade. Overall work of unusual merit in the major field is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc), if the student has filed the instructor's written permission for the postponement of required work with the Registrar; Absent (Abs) means absent from the final examination; Deferred (Def) means the grade has been deferred because of illness during the examination; WD/F signifies withdrawal from a course without formal notification.

In computing averages, each point with a mark of A = 4; B = 3; C = 2; D = 1; F = 0. For every plus or minus point an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on the Academic Standing of Students.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Loss of credit for excess D work is deducted from the total number of points

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for the term. Work of D grade is not counted in the major field, although it is included in the average for the major.

REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the required work to be completed at Barnard. The student in conference with her advisers determines her program of work, taking into account her previous academic record and future plans. The following restrictions should be noted:

All transfer students must take the English proficiency test before registration. Any student who has had an introductory course in her former college which is comparable to English A1-A2 may offer it in fulfillment of the English requirement, provided she passes the proficiency test. Others are assigned either to English 1, 2 or to other English courses suited to their needs.

Transfer students are required to take a language placement test before registration and are assigned to the course which the results of the test indicate they are prepared to take. A high score on the test will give exemption from the language requirement. Should the student be placed in a language course lower than one already passed at her former college, she will lose credit for any work that must be repeated. Transfer work in literature may be counted as elective credit and may be used to satisfy the literature requirement of the humanities under certain conditions, though the student may be required to take additional work in language to complete the language requirement.

All transfers are required to take the hygiene exemption test before registration. Those who do not pass the test must take Hygiene 1 (see page 105) during the autumn term.

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted towards the degree must be taken at Barnard, including a minimum of 18 points in the major field. Not more than 6 points of work of D grade done elsewhere may be counted towards the degree.

VI. General Information

REGISTRATION

Prior to registration incoming students discuss their programs with the class or major adviser. For freshmen individual appointments are made during September, and for transfer students they are planned for the four days preceding the opening of college. Class advisers for the freshman and sophomore years are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1963-64 the class advisers are:

TO BE APPOINTED	Adviser to the Class of 1967
MISS MARIANNA BYRAM	Adviser to the Class of 1966
MRS. JULIA HIRSCH EBEL	Advisor to the Class of 1966

Registration for all students takes place in the Gymnasium, Barnard Hall, as follows:

Autumn Term

Monday, September 23	Old day students
Tuesday, September 24	Transfers and all resident students (except freshmen)
Wednesday, September 25	Transfers and all freshmen

Spring Term

Monday, February 3	All students (A-L)
Tuesday, February 4	All students (M-Z)

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register on the dates indicated. (See also Payment of Fees, page 162.)

No student will be permitted to register after two weeks from the official opening date of either term.

REGISTRATION IN ABSENTIA

Fifteen points of the senior year must be taken at Barnard except by special permission of the Committee on Instruction. Normally, such permission is granted to students who have spent no less than two years at Barnard; whose scholastic standing is above average; and who present a well-planned program approved by the major department. A senior taking work elsewhere for credit towards the Barnard degree registers *in absentia*. (See Fees, page 162.)

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ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subject to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the total number of points for the term.

All absences due to illness must be reported on forms available in the office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Students who are prevented by conscientious scruples from complying with academic requirements on days set apart by their church for religious observance should discuss this problem with their religious counselor and have a statement from him filed in the office of the Dean of Studies.

WITHDRAWAL

A student not subject to discipline for infraction of College rules may withdraw from the College with an honorable discharge. Notice of intention to withdraw must be given in writing on forms to be obtained from the office of the Dean of Studies. Failure to submit such notification on the part of a student who withdraws while college is in session may result in a report of WD/F for the term's work. A student under twenty-one must furnish written assent of a parent or guardian.

Requests for leaves of absence should be addressed in writing to the Dean of Studies. A student in good standing may be granted a leave

GENERAL INFORMATION

of absence for one term or two consecutive terms only, for personal reasons, *e.g.*, health, marriage, financial necessity, or for study abroad.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 24 points of academic work
Sophomores:	those who have completed 24 points
Juniors:	those who have completed 54 points
Seniors:	those who have completed 86 points
Unclassified:	those who have not yet been assigned definite credit on transfer
Non-matriculated:	those who are not candidates for the degree

No matriculated student may change her status to that of non-matriculated student.

CHANGE OF PROGRAM

Students may change the programs for which they have registered, through Thursday, October 10, Autumn Term, and Wednesday, February 19, Spring Term. After that date, changes of program are subject to the following regulations:

Section Changes: Sections may not be changed except at the written request of the instructor.

Adding Courses: No course or point may be added for any reason.

Dropping Courses: A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. The application must bear the signature of the instructor. After a fixed date (December 15, Autumn Term; April 15, Spring Term), no course may be dropped except with the approval of the Dean of Studies, and then only for reasons of serious personal emergency.

Audited Courses: No change from a non-credit to a credit basis may be made under any circumstances after the final date for adding a point or a course.

PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each term is 12 and the maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or more than seven

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hours of class and laboratory work combined. Students may not elect courses meeting consecutively at 11, 12, and 1 o'clock on the same day; one of these hours must be kept free.

All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements.

COLUMBIA UNIVERSITY COURSES

Under certain conditions courses in other divisions of the University may be elected when an equivalent course is not offered at Barnard.

Graduate Faculties: Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified upper classmen who need this work to achieve their specific objective in the major field. Such students must obtain the approval of the major adviser and the chairman of the Barnard department concerned. This privilege is intended primarily for members of the senior class.

Seniors with high academic standing may apply for permission to count up to 12 points of graduate work in the major field towards the graduate degree.¹ Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the chairmen of the Barnard and Columbia departments, the Graduate Admissions office, and the Committee on Programs and Standing must be obtained in advance and filed in the Registrar's office.
2. The student must be in her senior year.
3. The program for the term must not be in excess of 16½ points.
4. The points for graduate credit must be over and above the 120 points required for the A.B. degree.

Columbia College: Certain courses at Columbia College may be elected, in addition to those in this announcement. A list of these is provided by the Barnard Registrar.

School of General Studies: Courses in the School of General Studies which are not listed in this announcement may be elected with the approval of the class or major adviser and the Committee on Programs and Standing. They will be credited towards the degree, if passed with a grade not lower than C. Fees for General Studies courses not listed in the Barnard announcement are paid for by the student herself (\$40 per point), over and above the Barnard tuition, with the following exceptions:

1. Courses which are essential to the major for which the approval of the major adviser and the Committee on Programs and Standing is obtained.

¹ Financial aid is not applicable to fees for such work.

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2. Language courses not offered at Barnard which are approved by the Committee on the Foreign Language Requirement for satisfaction of the language requirement. Note: Exemption from additional fees is given only for courses at the third-year level.
3. Courses certified by the chairman of a department as essential to a program of work to be taken at Barnard in a particular field under the direction of the department.

Teachers College: Certain courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses (\$45 per point) are not included in the regular tuition, but are added to the Barnard bill.

SUMMER STUDY

A student will normally be expected to spend four years completing work for the degree; a maximum of 18 points may be earned in summer school under the following conditions:

The entire summer program must be approved in advance in writing, first by the class or the major adviser, and secondly by the chairman of the Barnard department. Programs must be approved and submitted to the Registrar before the last day of the spring term. Official reports of grades must be filed with the Registrar not later than November 1.

Not more than two one-term courses may be elected in any one summer. Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than B- will be credited towards the degree.

Grades will not be included in the Barnard average.

EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1963-64 they will be held on January 20-30 inclusive and May 18-28, inclusive.

Deficiency examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness, or extreme family emergency. Exceptions to these conditions can be made only by ruling of the Committee on the Academic Standing of Students in individual cases. Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deficiency examination, she will receive a grade of zero for that examina-

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tion. A fee of \$5, payable in advance, is charged for each deficiency examination.

A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. A program of not less than twelve points each term and an average of 3.40 for the year are required. Announcement of the list is made the following October.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship and Barnard students of exceptionally high standing are eligible.

ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate

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Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

HEALTH

The College Physician is responsible for the health of the college community. She is assisted by three consulting psychiatrists, a psychiatric social worker, and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen. Students will not be permitted to register for the succeeding term until they have had this examination.

Students assigned rooms by the College are required to subscribe to the University Student Medical Plan (see page 165) which includes provision for infirmary care. Other students living off-campus may subscribe to this plan, if they wish.

All students, both resident and non-resident, must immediately report any illness, however minor, to the Medical Office. If resident students wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician, and send her the name and address of the doctor before registration.

RESIDENCE

There are three dormitories on the Barnard campus, Brooks, Hewitt, and Helen Reid Halls, containing both single and double rooms, and providing residence facilities for approximately 500 students. As a rule, freshmen are assigned to the double rooms.

The dormitories are under the supervision of the Director of Residence. The Executive Committee of the Residence Students' Association helps to decide matters relative to student welfare and conduct. Further information concerning living in residence is available in the Residence Halls Guide which is sent to all resident students upon admission.

Barnard has residence space available for only one-third of the student body, and since it is the policy of the College to house on campus as many students as possible from different parts of the world, it is not possible to assign rooms to those who are able to commute, or who are carrying a program of less than eleven points.

Housing Regulations: Classifications for housing are as follows:

Residents: Those assigned rooms by the College.

Non-Residents: Those whose legal homes¹ are more than one and

¹ A "legal home" for a student under 21 is the residence of her parents or her legal guardian.

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a half hours' distance each way, who were admitted as non-resident students and were not assigned rooms.

Commuters: Those whose legal homes¹ are within one and a half hours' commuting time each way. The College will be the sole judge of whether or not the student's legal home is in a commuting area.

All non-residents and commuters are eligible for rooms assigned by the College on a semester basis, when vacancies occur. Priority is given to upperclassmen whose legal residence is farthest from the campus. Non-resident students may make application to live off-campus, as follows:

1. If they are 21 years of age or older.
2. If they live with parents, husband, grandparents, aunts, uncles, married brothers or sisters, or brothers or sisters over 21. (A permit is not required for those living with parents or husband.)
3. If they wish to live in a women's residence or a women's hotel² approved by Barnard, or if they obtain a living-in job through the Placement Office. This option is not open to freshmen.

The above regulations pertain also to those admitted as resident students who may prefer to live off-campus.

Requests for off-campus housing for non-resident students for the winter term must be submitted *in writing by the parents* before September 15 to the Director of College Activities. Non-resident students entering in the spring term should, if possible, submit applications by January 15. Failure to meet these dates will result in late registration, which is subject to penalty.

Commuting students (other than freshmen) whose legal homes are within one and a half hours' commuting distance may live wherever their parents wish, under the following conditions:

One of the parents, or a legal guardian, must come in person to the College before the student moves from her legal home to discuss the need for a residence near the campus, and to sign a permission form stating that the parent or guardian has seen the proposed residence and takes full responsibility for the daughter's health, safety, and finances.

The College strongly recommends that in making arrangements for off-campus residence two or more students live together.

No student, other than one who is living in the College residence halls, or with her parents or husband, will be allowed to register *unless her permit is on file*.

During the academic year appointments should be made with the Di-

¹ A "legal home" for a student under 21 is the residence of her parents or her legal guardian.

² A list of approved residences and hotels is available.

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rector of College Activities. During the summer appointments will be handled in the office of the General Secretary.

Any change in residence must be reported immediately to the Director of College Activities, and a new permission form secured.

No exception to these regulations will be granted, unless the College considers that the circumstances are so unusual that they are not applicable to any other student. Requests for exceptions must be sent in writing by a parent or guardian to the Director of College Activities.

Financial aid for room and board will be considered only for students admitted as residents, who are living in rooms assigned by the College.

A student who violates the housing regulations will be suspended for a term, or expelled from the College.

MARRIED STUDENTS

Students who plan to marry and continue in college must notify the Dean of Studies in advance of the date of marriage. The College must receive assurance that the student's plans have been approved by her parents or guardian. Failure to comply with these conditions will make the student liable to dismissal.

Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office, which is open twelve months of the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical

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cal, laboratory, editorial and sales work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$200.

Summer jobs may be obtained through the Placement Office. Approximately seventy per cent of the Barnard students work during the summer and their earnings average about \$400.

VII. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Autumn term courses are marked by odd numbers, spring term courses by even numbers, year courses by consecutive odd and even numbers. An odd number followed by suffix *y* indicates a course repeated in the spring term that is ordinarily given in the autumn term. An even number followed by *x* indicates a course repeated in the autumn term that is ordinarily given in the spring term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if the written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [0]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's office. A complete list of courses by examination groups is given on page 191.

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The division of the University for whose students the course is primarily offered is designated by an alphabetical prefix as follows:

- C—Columbia College
- F—School of General Studies
- G—Graduate Faculties
- R—Program in the Arts
- V—Joint Barnard-Columbia Faculty
- W—Inter-University Faculty

The level of the course in general is indicated as follows:

- 1000-3000 Undergraduate
- 4000-5000 Graduate, open to qualified undergraduates
- 6000-8000 Graduate, normally not open to undergraduates

The symbol x follows the number of a course given in the autumn term; the symbol y follows the number of a spring term course.

INTERDEPARTMENTAL OFFERINGS

I. AREA STUDIES

Officer in charge for 1963-64, PROFESSOR ULANOV.

A. Foreign Area Studies

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The study is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. Accordingly, a student who majors in Foreign Area Studies plans her program in three aspects;

1. Command of at least one appropriate foreign language. The competence expected varies according to the language; for specific requirements consult the officer in charge. In addition to the language courses offered at Barnard, courses in other languages are available at Columbia University.
2. Acquaintance with the basic knowledge and methods of an academic department, such as history or literature, not necessarily with reference to a specific region. The major adviser helps in the choice of courses.
3. Courses on a region or country viewed through both the social sciences and the humanities, including the discipline chosen in the second aspect of the major. Courses are chosen in consultation with the major adviser.

The regions in which Foreign Area Studies majors are available are: England (see special program in British Civilization, page 51); Western Europe, with special reference to some one country; Russia; Asia, with special reference to certain regions; and Latin America.

The major examination is in two parts, one examining knowledge of the chosen area in general and the other knowledge of the area in terms of the chosen discipline. Specially qualified students may be invited to write a senior thesis instead of the second part of the major examination.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge of Area Studies as soon as possible. It is advisable for such students to complete as many of the college requirements as possible and to begin study of an appropriate foreign language before the junior year.

B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government or history. With her major in her chosen subject, she should combine courses in other subjects which deal with international themes. A mimeographed list of such courses, from which selections can be made in consultation with the adviser, is available.

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In addition to the courses given at Barnard, other courses in international relations and related fields are available at Columbia University.

II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

BASIL RAUCH, Professor of History, Chairman

ANNETTE K. BAXTER, Associate in History

JOHN A. KOUWENHOVEN, Professor of English

OTTO LUENING, Professor of Music

BERNARD BARBER, Professor of Sociology

MARIANNA BYRAM, Assistant Professor of Art History

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies. Students who wish to major in American Studies should obtain from the chairman of the committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9-10 and 1-2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Studies 1, 2, and in the senior year the two advanced courses and American Studies 3, 4.

Required Courses:

History 9-10, History of the American Nation from Colonies to World Power
History 1-2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

INTERDEPARTMENTAL OFFERINGS

1, 2. Junior Readings. 6 points. [0]

Students will read selected classics in American Studies; brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read, discuss, and write critically on interdisciplinary works.

Required of all junior majors in American Studies. Open to others by written permission of the chairman. DR. BAXTER. Bi-weekly meetings. Th. 4:10-6.

3, 4. Senior Seminar. 6 points. [0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar.

Required of all senior majors in American Studies. Open to others by special permission of the chairman. PROFESSOR RAUCH. W 4:10-6 and frequent conferences.

III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

SIDNEY A. BURRELL, Associate Professor of History, Chairman

THOMAS P. PEARDON, Professor of Government

DAVID A. ROBERTSON, JR., Professor of English

CHILTON WILLIAMSON, Professor of History

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A major in British Civilization. A student who wishes to major in British Civilization must obtain the approval of the chairman of the committee before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1-2. The applicant should then plan, in consultation with the chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities (within the general area of British Civilization) to be selected in consultation with the chairman, as follows:

One basic course in the social sciences.

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of April or she may write a senior thesis, the length and standards of which will be set by the committee.

BARNARD COLLEGE

81-82. Seminar in British Civilization (same as Government 61-62, Section I). [0]
8 points.

Readings and discussion of selected problems in the development of British civilization from the Norman Conquest to the twentieth century. Open to majors in British Civilization and history majors interested in historiography on permission of the chairman. Prerequisite: History 11, 12. PROFESSOR PEARDON. Tu 4:10-6.

IV. CONSERVATION OF NATURAL RESOURCES

This program is organized and administered by a committee of members of the Departments of Botany and Geology-Geography:

LEONARD ZOBLER, Associate Professor of Geography, Chairman

JOSEPHINE MAYER, Associate in Education

DONALD D. RITCHIE, Professor of Botany

HENRY S. SHARP, Professor of Geology

The program is designed for students who have a vocational or an avocational interest in the earth as the home of man. In an urbanized society it is important to sharpen man's awareness of his dependence on natural resources. The ecology of human society is illustrated by the study of: the conservation of resources of soil, water, fishing, forests, and minerals; concern for wildlife; protection of local and federal areas for public parks; and the threat of air and stream pollution and over-crowded cities to the survival of our way of life.

Students who wish to participate in the program should consult a member of the committee. The program is flexible enough to accommodate students with special interests, including those who may wish to prepare for teaching.

The following courses are suggested for a major: Botany 1-2; 7; F1003x-F1004y; Geography 1; 3, 4; W4311x; W4312y; 59: Geology 1-2; G4330y or G4332y. The senior seminar in Natural Resources is required, and a summer course in field ecology and conservation is strongly recommended.

V. THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as illustrative of the diversified facets of our cultural heritage and traditions. For suggestions as to further development of this material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

[**Anthropology G4107x. The Study of Folklore.** 2 or 3 points. PROFESSOR CHOWNING.

Not given in 1963-64.]

Art History 1-2. Introduction to the Study of the History of Art. 4 or 6 points. PROFESSOR NOVAK.

INTERDEPARTMENTAL OFFERINGS

Classical Civilization 31. Classical Myth. 3 points. **MISS CONSTANTINIDES.**

Classical Civilization C3123x. Greek Drama and its Influences. 3 points. **PROFESSOR HADAS.**

[Classical Civilization C3126y. Epic in Greece.] 3 points. _____
Not given in 1963-64.]

English 81. Shapes of American Experience. 3 points. **PROFESSOR KOUWENHOVEN.**

English 83. Modern Literature and the Allied Arts. 3 points. **PROFESSOR ULANOV.**

[German 55, 56. German Literary Tradition: Intellect and Art (in English).] 6 points. **PROFESSOR JARVIS.**
Not given in 1963-64.]

History 7-8. Medieval Thought, Culture, and Science. 6 points. **PROFESSOR CANTOR.**

Italian V1121x. Italian Renaissance and its Classical Background (in English). 2 or 3 points. **PROFESSOR LORCH.**

Music 1-2. An Introduction to Music. 6 points. **PROFESSORS DORIS and CHINN.**

Oriental Civilizations V3355x-V3356y. 8 points. **PROFESSORS DE BARY, EMBREE, MESKILL and WEBB.**

Oriental Humanities V3399x-V3400y. 8 points. **PROFESSORS DE BARY, EMBREE, MADINA, MESKILL, and WEILER.**

Philosophy 42. Philosophy of Art. 3 points. **DR. MOORE.**

Philosophy 43. Philosophical Implications of the Modern Novel. 3 points. **PROFESSOR BRENNAN.**

Religion 25. Religion in Contemporary Society. 3 points. **PROFESSOR STAHLER.**

Religion 26. Religion in Contemporary Culture. 3 points. **PROFESSOR NIEBUHR.**

Spanish 13, 14. The Culture of the Hispanic Countries. 4 points. **PROFESSOR FLORIT and MR. FUENTES.**

[Spanish 33, 34. Introduction to the Literature of Spain in Relation to the Kindred Arts (in English).] 4 points.
Not given in 1963-64.]

ANTHROPOLOGY

ASSISTANT PROFESSORS: SYLVIA M. BROADBENT (Chairman), ¹ANN CHOWNING,
WILLIAM A. HAVILAND

ASSISTANT: _____

Anthropology is the study of man in all aspects, cultural and biological. Consequently it is related to many other disciplines within the social and natural sciences and the humanities. A student majoring in anthropology receives a broad liberal arts education and will also be prepared to continue in graduate work, which is essential to most professional careers in anthropology.

Every major is expected to have a general knowledge of the whole field. To this end, she is required to take: Courses 1; 3 or 4; 5-6; 19; 20; 51; and one archaeology course given either at Barnard or Columbia. A field course will not satisfy this last requirement. She should also choose a special field of interest, and select additional courses which relate to it.

Majors of high standing may be invited to write a senior thesis (53,54). All majors must take a major examination which is in two parts of three hours each. The first section, required of everyone, tests the student's knowledge of theoretical concepts in anthropology; ethnography; physical anthropology; archaeology; linguistics. Greatest emphasis is on the first four topics. The second section is on a special topic chosen by each student according to her own particular interests.

Suggested combinations of courses are:

For students primarily interested in the social sciences: Courses 2; 3; 4; 14; 26; economics, geography, government, history, Oriental Studies, philosophy, psychology, religion, sociology and appropriate Columbia courses.

For students primarily interested in archaeology: Course 12; ancient history, classical civilization, art history, geography, geology and appropriate Columbia courses.

For students primarily interested in the humanities: Courses 7; 9; 10; 12; art history, language, literature, music, philosophy, and religion.

For students primarily interested in the biological aspects of anthropology: Course 5-6; geography, geology, psychology, and zoology.

Several major museums and libraries in New York offer exceptional opportunities for individual research which may be carried out in Courses 51; 53, 54. Various summer schools offer opportunities for field experience in archaeology and ethnography. Majors are encouraged to participate in such programs. A maximum of six points obtained from a field course may be counted towards the Barnard degree.

1, 2. Introduction to Cultural Anthropology. 6 points.

[3]

The nature and diversity of human society and culture: comparative study of economics, social and political organization, religion, art, and the individual. Problems resulting from contacts between industrialized and non-literate societies.

¹ Absent on leave, 1963-64.

ANTHROPOLOGY

Each course counts towards the requirement in contemporary society; if taken together they fulfill it. Prerequisite for Course 2: Course 1 or permission of the instructor. PROFESSOR BROADBENT and assistant. M W F 11.

3. Cultural Anthropology of the Old World. 3 points. [5]

Survey of native cultures of Oceania, Eurasia and Africa. Term paper. PROFESSOR HAVILAND. M W F 2:10.

4. Cultural Anthropology of the New World. 3 points. [5]

Survey of the Indian and Eskimo cultures of the Americas. Term paper. PROFESSOR HAVILAND. M W F 2:10.

5-6. Physical Anthropology. 6 points. [7]

The physical evolution of man, including racial differentiation, and the investigation of human biology. Evolutionary theory, comparative study of primates, the fossil record, and human genetics. Fulfils the non-laboratory biological science requirement. PROFESSOR HAVILAND and assistant. Tu Th 10:35-11:50.

[G4107x. The Study of Folklore.] 2 or 3 points. PROFESSOR CHOWNING.

Not given in 1963-64.]

9. Introductory Linguistics. 3 points [4]

An introduction to the study of language, both written and unwritten. The development of modern linguistics; the basic principles of structural analysis (phonetics, phonemics, and morphemics); linguistic change, and the genetic classification of languages; the relations between language and other aspects of culture. PROFESSOR BROADBENT. M W F 1:10.

10. Linguistics: Structural Analysis. 3 points. [4]

The application of modern techniques of phonetic, phonemic, morphemic, and syntactic analysis to language samples chosen to illustrate a wide range of structural types. Prerequisite: Course 9 or permission of the instructor. PROFESSOR BROADBENT. M W F 1:10.

[12. Old World Archaeology.] 3 points. PROFESSOR BROADBENT.

Not given in 1963-64.]

[14. Social Organization.] 3 points. PROFESSOR CHOWNING.

Not given in 1963-64.]

19. History of Anthropological Theory. 3 points. [9]

The historical development of the principal concepts in the various subfields of anthropology from the nineteenth through the early part of the twentieth century. Bi-weekly papers. Open only to juniors and seniors. Prerequisite: Course 1 or written permission of the instructor. PROFESSOR BROADBENT. Th 2:10-4.

BARNARD COLLEGE

20. Current Anthropological Theory. 3 points.

[9]

Major theoretical concepts current in the various subfields of anthropology. Bi-weekly papers. Open only to juniors and seniors. Prerequisite: Course 1 or written permission of the instructor. PROFESSOR HAVILAND. Th 2:10-4.

51. Senior Seminar. 3 points.

[0]

Specific subject to be determined by the interests of the students. Oral reports and a term paper. Required of senior majors, and ordinarily open only to them. PROFESSOR HAVILAND. Tu 4:10-6.

52. Seminar on Anthropological Problems. 3 points.

[0]

Discussion of advanced readings covering the whole field of anthropology. Open only to seniors. PROFESSOR HAVILAND. Tu 4:10-6.

53, 54. Senior Thesis. 6 points.

[0]

Topic to be chosen in consultation with the instructor in charge. Weekly conference required. PROFESSORS BROADBENT and HAVILAND. Hour to be arranged.

COLUMBIA COURSES

With the consent of the Barnard department, qualified junior and senior majors may elect certain graduate courses given at Columbia. A description of these courses will be found in the Announcement of the Graduate Faculties.

The following undergraduate courses taught by the combined faculties of Columbia College and the School of General Studies are open to Barnard students, provided that permission is obtained from the chairman of the Barnard department. For details and hours of these courses see the Announcements of Columbia College or of the School of General Studies.

W1004x. Africa. 3 points. PROFESSOR ROSMAN.

W3001x. Primitive Society. 3 points. PROFESSOR ROSMAN.

W3009x. Ethnology of Polynesia and Micronesia. 3 points. PROFESSOR VAYDA.

W3029y. Archaeology of the New World. 3 points. PROFESSOR STIGLER.

W3032x. Archaeology of the Old World. 3 points. PROFESSOR STIGLER.

W3042x. Primitive Religion. 3 points. PROFESSOR STIGLER.

W3049x-W3050y. Field Archaeology. 6 points. -----.

W3066y. Latin America, Prefield Orientation. 4 points. PROFESSOR HARRIS.
Prerequisite: permission of the instructor.

ART HISTORY

PROFESSORS: JULIUS S. HELD (Chairman), ¹MARION LAWRENCE

ASSOCIATE PROFESSOR: JANE G. MAHLER

ASSISTANT PROFESSORS: MARIANNA BYRAM, BARBARA NOVAK

INSTRUCTOR: LINDA SEIDEL

ASSISTANT: LOIS ENGELSON

STUDIO ASSISTANT: —————

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSOCIATE PROFESSOR: EVELYN HARRISON

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Many courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1-2, but students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 60 for regulations governing these courses.

Majors in Art History are required to take the seminar, 97-98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German and Italian is highly desirable, especially for students who expect to do graduate work. Students expecting to specialize in the art of any one country should also acquire that language i.e.—for Spanish art, Spanish.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

1-2. Introduction to the Study of Art History. 4 points, or with laboratory, 6 points [6]

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York.

¹ Absent on leave, 1963-64.

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Laboratory work: An introduction to the technical problems of carving, clay modeling, graphic art, egg tempera and oil painting with emphasis on two and three dimensional design, also sketching from the living model and out of doors. Laboratory fee, \$5 per term.

This course satisfies the non-literature requirement in the humanities. PROFESSOR NOVAK. Lec. Tu Th 9:30-10:30. Lab. (2 hours) W 10-11:50; 3:10-5; Th 2:10-4, and other sections, if necessary, at hours to be arranged.

43, 44. Introduction to Ancient Art. 6 points.

[4]

Winter Term: A survey with emphasis on the major arts of architecture, painting and sculpture of Egypt, Mesopotamia, the early Aegean and archaic Greece. Spring Term: The art of classical and Hellenistic Greece and of Rome down to the time of Constantine. Either term may be taken separately. PROFESSOR HARRISON. M W F 1:10. Visits to the Metropolitan Museum of Art at hours to be arranged.

51, 52. Medieval Art. 6 points.

[5]

Winter Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, then the Celtic, Carolingian and Romanesque styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France and Gothic architecture, sculpture and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. Course 51 is prerequisite to Course 52. MISS SEIDEL. M W F 2:10. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2:10, or at hours to be arranged.

61. European Architecture from the Renaissance through the Rococo Style. 3 points.

[2]

Starting with the Italian Renaissance the course will cover the major developments in European architecture from the fifteenth century through the Rococo style of the eighteenth century. Open to all except freshmen. PROFESSOR BYRAM. M W F 10.

64. European Sculpture, Renaissance and Modern. 3 points.

[2]

Important developments in European sculpture from the Pisani and the Italian Renaissance into the twentieth century. One or two term examinations and possibly one or two short papers. Open to all except freshmen. PROFESSOR BYRAM. M W F 10.

65. Renaissance Painting in Northern Europe. 3 points.

[9]

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. MISS SEIDEL. Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

ART HISTORY

66. Italian Renaissance Painting. 3 points. [9]

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. **MISS SEIDEL.** Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

[68. Prints and Drawings. 3 points. **PROFESSOR HELD.**

Not given in 1963-64.]

[70. European and American Architecture from the Eighteenth into the Twentieth Century. 3 points. **PROFESSOR BYRAM.**

Not given in 1963-64.]

75, 76. European Painting since the Renaissance. 6 points. [7]

Winter Term: The artists of Mannerism and the Baroque (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt), the influence on art of the Counter-Reformation and Absolutism. Spring Term: The artists of the Rococo (Watteau); Classicism and Romanticism (David, Goya, Delacroix); Realism, Impressionism, and the emergence of modern art (Courbet, Manet, Cézanne, Van Gogh, Picasso). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. **PROFESSOR HELD.** Tu Th 10:35-11:50.

77. American Art from Colonial Times to the Armory Show. 3 points. [10]

The development of the arts in America from colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. **PROFESSOR NOVAK.** M W 3:10-4:30.

78. Modern European and American Painting. 3 points. [10]

Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin to Pollock. Open to all except freshmen. **PROFESSOR NOVAK.** M W 3:10-4:30.

81. The Literature of Art. 3 points. [13]

Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhardt, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but also open to senior majors. **PROFESSOR NOVAK.** Tu 3:10-5.

[82. Masterpieces of Art in the New York Museums. 3 points. **PROFESSOR HELD.**

Not given in 1963-64.]

BARNARD COLLEGE

91, 92. Oriental Art. 6 points.

[3]

The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting, frescoes, and minor arts. The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. PROFESSOR MAHLER. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged.

97-98. Seminar for Majors. 6 points.

[12]

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and one long or two short papers on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR HELD. Th 4:10-6.

STUDIO COURSES

Studio courses can count towards the degree only if taken parallel to a theoretical or historical course in art history. A maximum of 12 points of studio work may be credited. Admission only with written permission of the chairman of the department and the departmental representative (408 Low Library).

Other studio courses given at Columbia University may be taken by written permission of the chairman of the department. These courses are described in the Announcement of the School of General Studies and in the Announcement of the Program in the Arts.

Design R1001x-R1002y. Basic Design. 6 points.

Fundamentals of design; creative construction of lines, shapes, and colors. Model fee, \$7.50 per term. PROFESSORS MANGRAVITE and PICKEN. Section I Tu Th 1:10-4. Section II M W 7:10-10 p.m.

Drawing R1001x-R1002y. Introductory Drawing. 4 or 6 points.

Study of fundamental principles of drawing, with special emphasis on the human figure. Course R1001x is not prerequisite to Course R1002y, which may be taken independently. Model fee, \$7.50 per term. PROFESSORS KNIGHT, PICKEN, and RACZ. Section I Tu Th 9-11:50 (6 points). Section II M W 7:10-10 p.m. (6 points). Section III Tu Th 1:10-4 (6 points). Section IV W 1:10-5 (4 points).

Sculpture R1001x-R1002y. Introductory Sculpture. 6 points.

Modeling in clay and plaster, with emphasis on design. Elementary studies of the human figure. Laboratory fee, \$7.50 per term. PROFESSOR NIVOLA and MR. ACOSTINI. Section I W F 9-11:50 Section II M W 7:10-10 p.m.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. The following courses (three points each) are specifically recommended as suitable for Barnard seniors:

G4056x. The Art of Primitive Peoples. PROFESSOR FRASER. Th 6:10—8 p.m.

G4075y. The Art of Negro Africa. PROFESSOR WINGERT. Tu 7:10—9 p.m.

G4112y. Painting of the Ming Dynasty. PROFESSOR CHIANG. Th 10—11:50.

G4125y. Buddhist Art of India and the Far East. PROFESSOR MAHLER. Th 2:10—4.

G4180x. Egyptian Art. PROFESSOR PORADA. M 6:10—8 p.m.

G4204y. Greek and Roman Painting. PROFESSOR BRENDL. F 10—11:50.

G4255y. Hellenistic Sculpture and Painting. PROFESSOR HARRISON. M 10—11:50.

G4270x. Roman Art from Trajan to Constantine. PROFESSOR BRENDL. F 10—11:50.

G4330y. Early Medieval Painting. PROFESSOR SCHAPIRO. W 10—11:50.

G4395x. The International Style in Manuscript Illumination. PROFESSOR SCHMIDT. Th 10—11:50.

G4410x. The Classical Tradition and the Renaissance. PROFESSOR WITT-KOWER. M 4:10—6.

G4450y. Sixteenth-Century Italian Architecture. PROFESSOR HIBBARD. Tu 10—11:50.

G4546x. Seventeenth-century French Architecture. DR. NYBERG. M 10—11:50.

G4555x. German Painting in the Fifteenth and Sixteenth Centuries. PROFESSOR HELD. W 4:10—6.

G4630y. Impressionism. PROFESSOR SCHAPIRO. M W 3:10.

G4635x. Post-Impressionism. PROFESSOR REFF. M 10—11:50.

G4715y. American Painting. PROFESSOR NOVAK. W 10—11:50.

BOTANY

PROFESSOR: DONALD D. RITCHIE (Chairman)

ASSOCIATE PROFESSOR: ¹WILLIAM A. CORPE

ASSISTANTS: MARY C. EFTHIMION, ELEANOR L. NOBACK

A major in botany should become familiar with the properties and functions of living matter, as exemplified by plants in various evolutionary groups from bacteria to grasses. Emphasis is on the relation of structure to biological function; on photosynthetic plants as the primary energy-conserving agents of the earth; and on approaches which are fruitful in explaining biological events. The science of botany has many areas yet to be explored, and botanists find opportunities for work, particularly in microbiology, in the laboratories of industry, government, universities, and scientific institutions.

Students majoring in botany take Course 1-2 and additional courses to make a total of 28 points. In preparation for graduate work, Courses 5, 6; G6151x and G6161x are recommended. Other combinations are permitted, however, and are determined by the plans of the student who seeks immediate employment, plans to teach in secondary or elementary schools, or desires an introduction to the plant world.

Botany majors are expected to take a year of chemistry. Those who intend to do graduate study must have organic chemistry, and as much work in physics, zoology, and the other sciences as time permits. Russian, German, and French, or some combination of these, will be necessary for advanced degrees.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research, and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

The major examination consists of a two-hour written test on the field, an oral session, and the Graduate Record Examination.

Because of the increasing pressure of the human species for space, food, and energy, the Departments of Botany and of Geology-Geography offer a joint major in the Conservation of Natural Resources. Students concerned with the future well-being of the United States and of man in general should read the announcement of this program on page 52, under Interdepartmental Offerings.

1-2. General Botany. 8 points.

[6]

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants. Patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials correlated with laboratory studies. Emphasis upon the importance of plants to man. PROFESSOR RITCHIE and staff. Lec. Tu Th 9-10:10. Lab. (2 hours) Tu 10:15-12, 2:10-4 or W 2:10-4.

¹ Absent on leave, 1963-64.

BOTANY

1a-2a. General Botany. 6 points. [6]

Lectures identical with those of 1-2. No laboratory work. To follow or parallel: a laboratory science. PROFESSOR RITCHIE and staff. Tu Th 9-10:10.

F1003x-F1004y. Plant Geography. 6 points.

Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: Course 1-2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6:10 p.m. Field work at hours to be arranged.

5, 6. Cytology. 10 points. [2]

Biology of the cell: structure and function of the cell wall, nucleus, cytoplasm, and its inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc. Prerequisite: at least a year of college work in either botany or zoology. PROFESSOR RITCHIE. Lec. M F 10. Lab. (6 hours) W 10-12, plus 4 hours to be arranged.

[7. Plant Resources. 3 points.

Not given in 1963-64.]

[8. Structure and Relationships of Flowering Plants. 4 points.

Not given in 1963-64.]

10. Elementary Microbiology. 4 points. [5]

Introduction to study of bacteriological methods, representative types of micro-organisms, and their importance in human economy. ----- Lec. M W 2:10. Lab. (4 hours) M W 3:10-5.

[G6151x. Introduction to Microbiology. 4 points. PROFESSOR CORPE.

Not given in 1963-64.]

[G6152y. Advanced Microbiology. 4 points. PROFESSOR CORPE.

Not given in 1963-64.]

G6161x, G6162y. Special Problems in Microbiology, Morphology, and Physiology. 2 to 6 points.

Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

CHEMISTRY

PROFESSORS: EDWARD J. KING (Chairman), EMMA D. STECHER

INSTRUCTOR: _____

LECTURERS: GRACE W. KING, BERNICE SEGAL

ASSISTANTS: CAROL KORNFELD, _____, _____, _____

A major in chemistry is designed: (1) to make clear the orderly nature of the physical universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide the necessary pre-professional training for careers in teaching, in medicine, or in chemical research.

An entering student who is interested in chemistry should consult a representative of the department during registration for advice in planning her program. In the first year she should take Course 1-8 and Mathematics 7 and 15y, or 15x and 16y. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. The equipment includes single-pan balances; pH meters; both manual and automatically recording titrators; spectrophotometers for measuring the absorption of visible, ultraviolet, and infrared light; a flame photometer; apparatus for paper, column, thin-layer, and gas chromatography; high vacuum lines; Geiger-Müller counters and other equipment for work in radiochemistry. Experience with modern instruments begins in the first-year course.

Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

1. General Elementary Chemistry. 4 points.

[6]

A study of chemical principles with applications to inorganic chemistry. Course 1-2 and Course 1-8 are not divisible under any circumstances. PROFESSOR KING, DR. KING, and assistants. Lec. Tu Th 9:10-10:25.

Recitation and laboratory for students with no previous chemistry M 1:10-4:30. Recitation and laboratory for all other students, one afternoon: Tu or Th 2:10-5:30 or W or F 1:10-4:30.

2. General Chemistry. 4 points.

[1]

Properties of inorganic, organic, and biochemical systems are surveyed and inter-

CHEMISTRY

preted. A terminal course for non-science majors. Prerequisite: Course 1. **PROFESSOR KING, DR KING, and assistants.**

Lec. M W F 9. Recitation and laboratory: one afternoon M 1:10—4:30 or Tu 2:10—5:30

1a—2a. General Elementary Chemistry. 6 points.

Lectures and recitations identical with those of Course 1—2. No laboratory work. Prerequisite: preceding or parallel, a laboratory science. **PROFESSOR KING and DR. KING.**

Winter Term: Lec. Tu Th 9:10—10:25; recitation hour M 1:10 or Tu 2:10. [6]

Spring Term: Lec. M W F 9; recitation hour M 1:10 or Tu 2:10. [1]

8. Qualitative Analysis and Electrolytic Solutions. 5 points. [6]

A study of ionic compounds and ionic equilibria. Prerequisite: Course 1. Course 8 is a prerequisite for further work in chemistry. **PROFESSOR KING, DR. KING, and assistants.** Lec. Tu Th 9:10—10:25. Laboratory one afternoon: W or F 1:10—5 or Th 2:10—6.

41. Organic Chemistry. Lectures (41a, 4 points). Laboratory (41b, 2 points). [3]

Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 8. Laboratory deposit, \$20. **PROFESSOR STECHER and assistants.** Lec. M W F 11—12:15. Lab. Tu Th 9—12 or M W 1:10—4 and, if warranted by registration, Tu Th 2:10—5.

42. Organic Chemistry. Lectures (42a, 4 points). Laboratory (42b, 2 points). [3]

Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis. Prerequisite: Course 41. With permission non-majors may take the lectures without the laboratory. Laboratory deposit, \$20. **PROFESSOR STECHER and assistants.** Lec. M W F 11—12:15. Lab. Tu Th 9—12, and, if warranted by the registration, Tu Th 2:10—5.

51. Quantitative Chemistry. 6 points. [6]

The principles and techniques of quantitative measurement and their application to various chemical problems. Prerequisite: Courses 8 and 42. Laboratory deposit, \$20. _____ and assistant. Lec. Tu Th 9:10—10:25. Lab. M W 1:10—5 or Tu Th 2:10—6.

55, 56. Physical Chemistry. 6 points. [2]

Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Majors must elect Course 58 parallel to 56. Prerequisite: Course 8; Mathematics 15, 16; Physics 3—4. **DR. SEGAL.** Lec. M W F 10.

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58. Physical Chemistry Laboratory. 3 points.

[0]

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Courses 8, 51; Mathematics 15, 16; Physics 3-4. Laboratory deposit, \$20. —————. Lab. M W 1:10-4 or Tu Th 9-11:50.

63. Advanced Analytical Chemistry. 3 points.

[4]

Lectures and laboratory work on quantitative analysis with instruments. Prerequisites: Courses 51, 56. Laboratory deposit, \$20. DR. SEGAL. Lec. M 1:10. Lab. M 2:10-5, W 1:10-4.

C3072y. Introductory Biochemistry. 3 points.

Mechanistic and quantitative aspects of intermediary metabolism, with some discussion of macromolecular properties. Prerequisite: Course 42. PROFESSOR BRESLOW. Tu 9-10:50 and Th 10.

85. Organic Chemistry, Advanced Course. 3 points

[7]

Application of modern theories to the interpretation of the mechanisms of various types of organic reactions. Prerequisite: Course 42. PROFESSOR STECHER. Tu Th 10:35-11:50.

87, 88. Problems in Chemistry. 2 to 4 points.

[0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$20 each session. PROFESSORS KING, STECHER, DR. SEGAL, —————. Hours and credit by arrangement.

99y. Conferences in Chemistry. 2 points.

[5]

Readings and discussion of selected topics. Required of majors in their senior year. DR. SEGAL. F 2:10-4.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors.

The following are suggested:

G4104y. Advanced Inorganic Chemistry.

G4131x. Introduction to Chemical Physics.

G4133y. Physical Chemistry: Chemical Thermodynamics.

G4147x. Advanced Organic Chemistry.

D R A M A

DIRECTOR OF THE MINOR LATHAM PLAYHOUSE: KENNETH H. JANES

TECHNICAL DIRECTOR: ELLEN TERRY

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult MR. JANES.

Students take part in the productions of *Wigs and Cues* (the college dramatic group); the *Gilbert and Sullivan Society*; the experimental and classical drama workshops; the Spanish, French, German, and Italian Clubs; and the several dance and music groups. The *Barnard Bulletin*'s dramatic column and WKCR (the campus radio station) offer other opportunities to develop abilities related to the theatre arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

ENGLISH

13, 14. Dramatic Writing. 6 points. PROFESSOR TEICHMANN.

21, 22. Voice and Diction. 6 points. PROFESSOR NORMAN and
MISS CAUGHRAN.

23, 24. Oral Interpretation of Literature. 6 points. MISS CAUGHRAN.

27, [28]. Public Speaking. 4 points. PROFESSOR NORMAN.

33, 34. Play Production. 6 points. MR. JANES and MISS TERRY.

63. Introduction to Shakespeare. 3 points. PROFESSOR ROBERTSON.

64. Shakespeare and the Elizabethan Stage. 3 points. PROFESSOR HOOK.

69. English Drama from its Beginnings to 1642. 3 points. PROFESSOR PATTERSON.

70. English Drama from the Restoration to the End of the Eighteenth Century.
3 points. PROFESSOR HOOK.

86. Drama from Ibsen to the Present. 3 points. PROFESSOR ULANOV.

FRENCH

17, 18. French Phonetics. 6 points. PROFESSOR PLEASANTS.

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31. French Theatre in the Twentieth Century. 2 points. PROFESSOR BREUNIG.

GERMAN

25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.

GREEK AND LATIN

Classical Civilization C3123x. Greek Drama and its Influences. 3 points. PROFESSOR HADAS.

[Greek V3305x. Greek Tragedy. 3 points. PROFESSOR BACON.

Not given in 1963-64.]

Greek V3307x. Greek Comedy. 3 points. PROFESSOR BENEDICT.

ITALIAN

V3642y. Studies in the Italian Theatre. 3 or 4 points. PROFESSOR LORCH.

MUSIC

V1005x. The Opera. 3 points. PROFESSOR LUENING.

V3239x—V3240y. Composition. 4 points. PROFESSOR LUENING.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

RUSSIAN

[C1229x. Russian Drama and Theatre. 3 points. PROFESSOR BELKNAP.

Not given in 1963-64.]

SPANISH

[17-18. The Spanish Drama of the Golden Age. 6 points. _____.

Not given in 1963-64.]

ECONOMICS

PROFESSORS: MARION HAMILTON GILLIM, RAYMOND J. SAULNIER

ASSOCIATE PROFESSOR: ROBERT LEKACHMAN (Chairman)

INSTRUCTOR: SHIRLEY B. JOHNSON

ASSISTANT: ELINOR YUDIN

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: LOUIS M. HACKER, AARON W. WARNER

Economics examines that substantial share of human activity which affects conditions of living. The major is planned to give each student an understanding of important aspects of economic life as a background both for informed citizenship and also for a career in business, government, research, or teaching. The courses offered treat the history of economic institutions and thought; current economic affairs, both national and international; and methods of economic research and analysis. A student may arrange her program to fit her special interests.

A student majoring in economics will be required to take Courses 1-2; 27 or 28, and 51-52. Course 17, 18 and a course in economic history are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each student in the required senior seminar will write an essay. There will be no major examination.

1-2. Introductory Economics. 6 points.

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: Business and labor organization, national income and its determination, economic theory, economic fluctuations, monetary economics, government finance, international economic relations, and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society. PROFESSORS GILLIM and LEKACHMAN and MISS JOHNSON. Section I MWF 9. [1] Section II MWF 10. [2] Section III MWF 12. [13] Section IV MWF 1:10. [4]

5, 6. European Economic History. 6 points. [4]

The rise of capitalism in western Europe. British industrial innovation and continental imitation. The development and decline of open world markets. Economic growth. The social and political conditions of economic change. Open to all except freshmen. Either term may be taken separately. PROFESSOR LEKACHMAN. MWF 1:10.

16. Government Finance and Fiscal Policy. 3 points. [3]

Government taxing, spending, and borrowing; their effects on employment,

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prices, and incomes; fiscal relations among federal, state, and local governments; and the federal budget. Prerequisite: Course 1-2 or permission of the instructor. **PROFESSOR GILLIM.** M W F 11.

17, 18. Introductory Statistics. 6 points. [1]

Autumn Term: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; non-linear correlations; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. **PROFESSOR GILLIM.** Lec. M W 9. Lab. (2 hours) M W 3:10-5 or Tu 3:30-5:30.

[19. Labor Economics. 3 points.

Not given in 1963-64.]

23. International Economics. 3 points. [3]

International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or permission of the instructor. **PROFESSOR GILLIM.** M W F 11.

25, 26. Contemporary Economic Issues. 6 points. [5]

A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. May be counted towards the requirement in contemporary society. Open to all except freshmen. Either term may be taken separately. **PROFESSOR SAULNIER.** M W 2:10-3:25.

27. Development of Economic Thought. 3 points. [2]

Economic thought from Adam Smith to Alfred Marshall, with some attention to the dissenting views of Marx and Veblen. Original sources. Open to all except freshmen. **PROFESSOR LEKACHMAN.** M W F 10.

28. Economic Analysis. 3 points. [2]

Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. **PROFESSOR LEKACHMAN.** M W F 10.

30. The Economics of Underdeveloped Areas. 3 points. [7]

The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1-2; Course 23 is strongly recommended. **MISS JOHNSON.** Tu Th 10:35-11:50.

31. The Soviet Economy. 3 points. [7]

A description of Soviet economic planning and of the organization of the U.S.S.R.'s economic system. May be counted towards the requirement in contemporary society. Prerequisite: Course 1-2 or the permission of the chairman of the department. **MISS JOHNSON.** Tu Th 10:35-11:50.

ECONOMICS

C3035x—C3036y. American Economic History. 6 points.

Economic development of the United States from Colonial times; the course and consequences of territorial expansion; the general transition from a rural, agricultural society to an urban industrialism, from debtor to creditor status in the world economy. Some regional aspects of the economy. The changing roles of government, labor, and business, in terms of particular economic problems. Open with the permission of the chairman of the Barnard department, to all except freshmen. **PROFESSOR HACKER.** Tu Th 10 and third hour to be arranged.

F3251x—F3252y. Industrial Organization and Public Control of Industry.

6 points.

Autumn Term: Structure of American industry; historical development and present structure of American industries; economic causes and significance of competition and monopoly; methods of measuring monopoly; antitrust policy and famous antitrust cases. Spring Term: Public regulation of industry; problems of government regulation in transportation, public utilities, and other regulated industries. Prerequisite: Course 1—2 and the permission of the chairman of the Barnard department. Either term may be taken separately. **PROFESSOR WARNER.**

M W 1:10—2:25.

51—52. Economics Seminar. 6 points. [0]

The senior essay. Reading, reports and discussion. Required for senior majors. **PROFESSOR SAULNIER.** W 3:30—5:30.

C3179x—C3180y. Seminar in American Economic History. 8 points.

Prerequisite: Course C3035x—C3036y, the written permission of the instructor, and the permission of the chairman of the Barnard department. **PROFESSOR HACKER.** W 7:10—9.

61, 62. Studies in Economics. Variable points. [0]

Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. **MEMBERS OF THE DEPARTMENT.**

G4713x—G4714y. Financial Institutions. 6 points.

A study of the functioning of the principal public and private agencies comprising the financial system of the United States, and of corporate financial policies, from the viewpoint of their relation to the flow of money payments and the process of capital formation. Open to seniors. Prerequisite: Course 1—2 and at least two other courses in economics. Either term may be taken separately. **PROFESSOR SAULNIER.** Tu 2:10—4.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business.

EDUCATION

The following interdepartmental program is supervised by the Committee on Education:

HELEN P. BAILEY, Dean of Studies, Chairman

JOSEPHINE MAYER, Associate in Education, Director of the Education Program

JOSEPH G. BRENNAN, Professor of Philosophy

LAWRENCE A. CREMIN, Frederick A. P. Barnard Professor of Education, Columbia University; Professor of Education, Teachers College

RICHARD A. NORMAN, Assistant Professor of English

THE PRESIDENT, *ex officio*

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard seniors whose applications are approved by the Committee on Education. It is designed to offer, within the context of a liberal arts curriculum, an introduction to the field of education. With the psychology prerequisite, it affords 15 points towards provisional certification for teaching in junior and senior high school in New York State. Full provisional certification in New York and other states requires courses of study beyond the Barnard offering.

All students are enrolled in Education 3-4 which is directly concerned with the principles and practice of classroom teaching. In addition, they take either Education-History C3051x in the autumn term or Philosophy 84 in the spring.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms which may be obtained in the office of the Education Program at the beginning of the spring term.

Education 3-4. Introduction to Teaching in the Secondary School. 8 points [9]

This course affords observation and student teaching in public and private schools. The experiences of observation and participation furnish the basis for study of principles, methods, and materials for effective teaching in the secondary school. Prerequisite: four points of psychology taken in one or two of the following courses: 5; 5a; 27; 27a. **MISS MAYER.** A minimum of two full mornings a week and Tu 2:10-4.

Education-History W3051x. History of Education in the United States.

3 points.

The development of American education in the context of social and intellectual history. Normally open only to students in the Education Program. **PROFESSOR CREMIN.** M 2:10-4.

Philosophy 84. The Philosophy of Education. 3 points.

[4]

The values and goals of education; a study of contemporary problems against their historical background. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. **PROFESSOR BRENNAN.** M W F 1:10.

ENGLISH

PROFESSORS: W. CABELL GREET (Chairman), JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR., ELEANOR ROSENBERG, ¹ELEANOR M. TILTON

VISITING PROFESSOR: JANET ADAM SMITH

ASSOCIATE PROFESSORS: ¹RICHARD NORMAN, LUCYLE HOOK, BARRY ULANOV

ADJUNCT ASSOCIATE PROFESSOR: HOWARD M. TEICHMANN

ASSISTANT PROFESSORS: BARBARA M. CROSS, RUTH MONTGOMERY KIVETTE (Director of English A), MARCUS KLEIN, JOANN RYAN MORSE, REMINGTON P. PATERSON, ALAN C. PURVES

ASSOCIATES: ELIZABETH CAUGHRAN, ROBERT PACK

INSTRUCTOR: JANICE FARRAR (Examinations Officer)

LECTURERS: RACHEL MAYER BROWNSTEIN, MARJORIE HOUSEPIAN DOBKIN, JULIA HIRSCH EBEL, MARTHA FOLEY, KENNETH H. JANES, NAOMI LOEB LIPMAN, JOAN S. RODMAN, ELLEN TERRY

ASSISTANT: MARGARET D. HANCE

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:
PROFESSOR: JAMES L. CLIFFORD

The objectives of a student majoring in English are to improve her oral and written expression, to increase her ability to interpret and evaluate a variety of literary texts, and to become acquainted with ways of studying the history of the language and the history of literature.

Program: Every English major is to take eleven courses in the department selected and distributed as follows:

Course 93 in the autumn or spring of the junior year. Course 91-92 in both the junior and senior years.

Course 51, 53, or 55. Five courses in literature of which two are to be selected from courses numbered 63-69 and two from courses numbered 70-79.

A major in *Literature* is to select one of the senior seminars numbered 97 and two additional half-year courses from the departmental offerings.

A major in *Writing* is to select one course from Courses 3, 4, 5, 6 and two courses from Courses 7, 8, 11, 12, 13, 14.

A major in *Speech* is required to take Course 21, to select one course from Courses 22, 23, 24, and to take either Course 27 or 28.

For related work outside the department, every major is required to take one full-year or two half-year courses in literature in a foreign language and is advised to take one full-year or two half-year courses in a subject or subjects related to the work of her major.

Examinations: 1. Qualifying Test, given twice a year in November and March. This is a test of general knowledge of titles, authors, dates, and literary terms. A

¹Absent on leave, Spring Term.

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major must pass this test by November of her junior year. (Prospective majors may take the test in their sophomore year.)

2. Major Examination. This examination is in two parts. Part I (three hours) requires critical interpretation and evaluation of passages of poetry and prose. Part II (three hours) requires the composition of an essay on a literary topic.

INTRODUCTORY

All transfer students and foreign students are required to take the English Proficiency Test before registering for any English course.

A1—A2. Reading and Writing. 6 points.

[0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. The only other English courses open to freshmen are Courses 19, 20; 21, 22; 21y; 27, 28, any of which may be taken parallel to A1—A2. PROFESSOR KIVETTE and MEMBERS OF THE DEPARTMENT.

Sections of Course A1—A2 meet at the following hours: M W F 9, 10, 11, 1:10, 2:10. Tu Th 9:10—10:25, 10:35—11:50, 2:10—3:25.

Room assignments will be posted outside 401 Barnard Hall.

WRITING, SPEECH, DRAMA

Two writing courses may not be taken concurrently unless one of the two is Course 13, 14, or 15 (Course 93 is a writing course). Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Hance (401 Barnard Hall).

1, 2. English Composition. 6 points.

[0]

Designed especially for students who need additional training in composition at the first-year level. Emphasis on correct and clear expression, and on sound organization of materials. Students may take either term or both. Cannot be counted towards a major in English. MRS. BROWNSTEIN. M W F 3:10.

3, 4. Structure and Style. 6 points.

[0]

I. Designed to give students an opportunity to experiment, according to their interests and needs, in varied forms: the story, the poem, the essay. Students may take either term or both. PROFESSOR KLEIN. Tu Th 2:10—3:25.

II. Designed to give students training beyond the first-year level in the writing of expository prose. Frequent individual conferences. Students may take either term or both. PROFESSOR CROSS. Tu Th 2:10—3:25.

5, 6. Advanced Composition. 6 points.

[0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either term or both. PROFESSOR KOUWENHOVEN. M W F 2:10.

ENGLISH

7, 8. Experiments in Writing. 6 points. [0]

Advanced work in the writing and close reading of poems and other literary forms. Outside readings. Individual conferences on the written work. MR. PACK. Tu 3:35-5:25.

11, 12. Story Writing. 6 points. [0]

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and some reading in the short story. MISS FOLEY. Tu Th 2:10-3:25.

13, 14. Dramatic Writing. 6 points. [0]

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. PROFESSOR TEICHMANN. Tu Th 2:10-3:25.

15. The Principles and Practice of Prosodic Analysis. 3 points. [0]

Practice in the analysis of meter and stanzaic structure, study of the relation of sound to sense, and readings in the history of prosodic theory and of poetic forms. Registration limited to 15; permission of the instructor required. PROFESSOR PURVES. M W F 1:10.

To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN.

The work of English majors with a special interest in speech should include Course 21, 22 and two half-year courses in public speaking, discussion and debate, or oral interpretation. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, WKCR, offer practical experience.

19x [or 19y]. Informal Speaking. 1 point. [0]

Practice in speaking to small groups; designed for students who wish help in making themselves understood and who need experience in thinking on their feet. [Course 19y will not be given in 1963-64.] PROFESSOR NORMAN. Th 9.

21, 22. Voice and Diction. 6 points. [0]

Autumn Term: Training in voice production and clear articulation; frequent conferences, use of the language laboratory. Spring Term: English dialects and standards of pronunciation; oral reports, reading aloud, and extemporaneous talks. Registration limited to 15 students. PROFESSOR NORMAN and MISS CAUGHRAN.

Section I M W F 11. (Autumn Term only). Section II Tu Th 10:35-11:50.

21y. Voice and Diction. 3 points. [0]

Same as Course 21, but given in the Spring Term. MISS CAUGHRAN. Section I M W F 11. Section II Tu Th 9:10-10:25.

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23, 24. Oral Interpretation of Literature. 6 points. [0]

Study of literary texts for oral presentation: essay, ballad, lyric poetry, dramatic poetry, drama. **MISS CAUGHRAN.** Tu Th 2:10-3:25.

27 [28]. Public Speaking. 4 points. [0]

Study of the basic principles of speech making, with emphasis on evaluating and organizing material and on effectiveness of delivery. Intended primarily for students who plan to teach. [Course 28 will not be given in 1963-64.] **PROFESSOR NORMAN.** Tu Th 4:10.

Students who have a special interest in the drama will find a summary of activities and courses related to that field on page 67.

33, 34. Play Production. 6 points. [0]

A study of the ways in which the dramatic arts fulfill the intention of the playwright. Theatre dynamics in terms of actors, directors, and all technical aspects of staging. Permission of the instructors required. **MR. JANES and MISS TERRY.** M F 3:10-5.

LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

§41, §42. Introduction to English Literature. 6 points. [12]

A general view of the scope and variety of English literature through study of selected writers and their works. This course is recommended, particularly to sophomores, for the satisfaction of the literature requirement. Autumn Term: *Beowulf* through Milton. Spring Term: Dryden to the present. **PROFESSORS KIVETTE, MORSE, and PATTERSON, and MISS FARRAR.** Section I M W F 9. Section II M W F 1:10. Section III Tu Th 2:10-3:25.

§41y. Introduction to English Literature. 3 points. [4]

Same as Course 41, but given in the Spring Term. **PROFESSOR PATTERSON.** M W F 1:10.

[44. Masterpieces of the Middle Ages. 3 points. -----

Not given in 1963-64.]

51. The English Language: History and Use. 3 points. [1]

An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. **PROFESSOR GREET.** W F 9.

53y. Anglo-Saxon Language and Literature. 3 points. [1]

An introduction to the study of Anglo-Saxon. **PROFESSOR GREET.** W F 9.

[§54. The Beowulf. 3 points. Prerequisite: Course 53y. **PROFESSOR GREET.**

Not given in 1963-64.]

ENGLISH

§55. Chaucer. 3 points. [7]

Chaucer's *Canterbury Tales*. PROFESSOR GREET. Tu Th 10:35–11:50.

§56. Medieval Literature. 3 points. [7]

Poetry and prose of the fourteenth century. Readings will be chosen from *Troilus and Criseyde*, *Pearl*, *Gawain and the Green Knight*, and *Piers Plowman*. Prerequisite: Course 53y or 55, or permission of the instructor. PROFESSOR GREET. Tu Th 10:35–11:50.

§63. Introduction to Shakespeare. 3 points. [3]

The meaning, scope, and greatness of Shakespeare. PROFESSOR ROBERTSON. M W F 11.

§64. Shakespeare and the Elizabethan Stage. 3 points. [3]

Selected plays studied with emphasis on the development of Shakespeare as a working dramatist. Scenes from the plays will be presented for analysis. PROFESSOR HOOK. M W F 11.

§66. The Tudor Renaissance. 3 points. [2]

Sir Thomas More and other humanists, the Reformation and its effect upon literature, the education of a gentleman, the uses of history, courtly poetry from Skelton through Sidney and the sonnet sequences. PROFESSOR ROSENBERG. M W F 10.

§67. Late Elizabethan Literature. 3 points. [4]

Spenser and his followers; Hakluyt, Ralegh, and the New World; the University Wits; verse satire and religious controversy. PROFESSOR ROSENBERG. M W F 1:10.

§68. Milton and Seventeenth Century Literature. 3 points. [4]

Jonson and the "classical poets"; Donne and the "metaphysicals"; Bacon, Browne, Burton, and the new science; Anglican and Puritan prose; Milton; Dryden. PROFESSOR KIVETTE. M W F 1:10.

§69. English Drama from its Beginnings to 1642. 3 points. [2]

Medieval drama, Tudor interludes, Elizabethan, Jacobean, and Caroline drama (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. PROFESSOR PATTERSON. M W F 10.

§70. English Drama from the Restoration to the End of the Eighteenth Century. 3 points. [2]

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. Scenes from the plays will be presented for analysis. PROFESSOR HOOK. M W F 10.

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§71, 72. The Novel. 6 points.

[5]

Autumn Term. The English novel before 1900, including works by Austen, Brontë, Dickens, George Eliot, Hardy, and James. Spring Term: The contemporary novel, including works by Proust, Conrad, Lawrence, Mann, and Faulkner.
PROFESSOR CROSS. M W F 2:10.

§G4301x, §G4302y. English Literature of the Eighteenth Century. 6 points.

Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. Tu Th 11, Th 2:30—3:20.

On Tuesday and Thursday mornings the class will attend the lectures of Course G4301x—G4302y. The Thursday afternoon session will be a discussion at Barnard.

§76. English Poets of the Romantic Period. 3 points.

[1]

The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in their literary and historical context and in the light of present day criticism.
PROFESSOR PURVES. M W F 9.

§77. The Victorian Age in Literature. 3 points.

[5]

Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. PROFESSOR ROBERTSON. M W F 2:10.

§78. Victorian Poetry and Criticism. 3 points.

[5]

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. PROFESSOR ROBERTSON. M W F 2:10.

§79. American Literature, 1620-1855. 3 points.

[6]

The Puritan background, the Revolutionary period, and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. PROFESSOR TILTON. Tu Th 9:10—10:25.

§80. American Literature, 1860-1960. 3 points.

[6]

The major writers in the context of their cultural history: Mark Twain, Howells, James, and the moderns. PROFESSOR KLEIN. Tu Th 9:10—10:25.

§81. Shapes of American Experience. 3 points.

[2]

Studies of form and structure in literature and other arts. Each student will keep a notebook, summarizing and commenting upon the readings and other aspects of the work. Prerequisite: a year of American history or literature. PROFESSOR KOUWENHOVEN. M W F 10.

ENGLISH

83. Modern Literature and the Allied Arts. 3 points. [9]

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theatre, and the motion picture. Gallery trips and record-listening. PROFESSOR ULANOV. Tu Th 2:10-3:25.

§85. Modern British and American Poetry. 3 points. [9]

The thought and style of Hardy, Hopkins, Yeats, Auden, Thomas, Robinson, Frost, Stevens, Eliot, and Cummings; the literary movements with which they are associated. MR. PACK. Tu Th 2:10-3:25.

86. Drama from Ibsen to the Present. 3 points. [9]

Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. Tu Th 2:10-3:25.

87. Major American Writers and Their Foreign Sources. 3 points. [12]

Independent study of related works by British, European, and American writers of the period 1836-1916. Prerequisites: Course 79 or 80 and a reading knowledge of a modern language. Permission of the instructor required. PROFESSOR TILTON. Tu 3:35-5:25.

§88. Scottish Literature. 3 points. [6]

Major writers and traditions studied in relation to the development of English literature from the late Middle Ages to the end of the nineteenth century. PROFESSOR ADAM SMITH. Tu Th 9:10-10:25.

91, 92. The English Conference. 2 points. [0]

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both the junior and senior years. It is not open to other students. PROFESSORS KLEIN and PURVES and MEMBERS OF THE DEPARTMENT. Th 3:35-4:25.

93 (or 93y). Literary Criticism: Analysis and Evaluation. 3 points. [0]

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works in the history of literary criticism. Frequent short papers.

Course 93 (or 93y) is required of all English majors in the junior year. (Transfer students must take it in the Autumn Term.) It is not open to other students. Registration in each section is limited, and students must file a departmental registration form with Mrs. Hance before completing their programs. PROFESSORS ADAM SMITH, HOOK, KIVETTE, MORSE, ROSENBERG, ULANOV, and MISS FARRAR. Section I M 2:10-4. Section II Tu 3:35-5:25. Section III W 3:10-5. Section IV W 3:10-5. (Spring Term only.)

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SENIOR SEMINARS

97 (or 97y), 98 (or 98x). Studies in Literature. 6 points.

[0]

These seminars provide opportunities for intensive study in fields to which the student has been introduced through more general courses. All English majors who elect advanced work in literature, rather than in writing or speech, are required in their senior year to take one section of 97 or 97y.

Registration in each section of 97 and 98 is limited, and the written permission of the instructor is required. Registration blanks are to be secured from **MRS. HANCE** and returned to her (Room 401 Barnard Hall).

If registration allows, the seminars numbered 97 are open to students specializing in speech and writing and to non-majors who have taken three literature courses including the prerequisites, and the seminars numbered 98 are open to all seniors who satisfy the prerequisites.

97. (Autumn Term)

- II. Dramatic Literature. Prerequisite: Six points selected from Courses 63, 64, 69, 70, 86, of which three points must be in 63 or 64. **PROFESSOR HOOK.** W 3:10-5.
- [III. Medieval Literature. **PROFESSOR GREET.** Not given in 1963-64. Majors may take Course 56 to satisfy the senior seminar requirements.]
- IV. Renaissance Literature. Prerequisite: Six points selected from courses 63, 64, 66, 67, 68, 69. **PROFESSOR ROSENBERG.** W 3:10-5.
- VII. Romantic Literature. Prerequisite: Three points selected from Course 76, French 28, German 15, 16. **PROFESSOR PURVES** W 3:10-5.

97y (Spring Term)

- I. American Literature. Prerequisite: Course 79 and three points selected from Course 80, History 9-10. **PROFESSOR KOUWENHOVEN.** Th 9:10-11.
- V. Elizabethan and Jacobean Drama. Prerequisite: Six points selected from Courses 63, 64, 66, 67, 69. **PROFESSOR PATTERSON.** W 3:10-5.
- VI. Neoclassical Literature. Prerequisite: Three points selected from Course G4301x, G4302y, French 23, 24, 25, 26. **PROFESSOR MORSE.** W 3:10-5.
- VIII. Victorian Literature. Prerequisite: Three points selected from Courses 77, 78. **PROFESSOR ROBERTSON.** W 3:10-5.

98 (Spring Term)

- I. Modern Poetry. Prerequisite: Six points selected from Courses 76, 78, 85. **MR. PACK.** W 3:10-5.

98x (Autumn Term)

- II. Sterne and Joyce. Prerequisite: Three points selected from Courses 71, G4302y, 83. **PROFESSOR ULANOV.** Tu 3:35-5:25.

FRENCH

PROFESSOR: LEROY C. BREUNIG (Chairman)

ASSOCIATE PROFESSORS: HELEN PHELPS BAILEY, RENÉE J. KOHN, ANDRÉ MESNARD

ASSISTANT PROFESSORS: ELIZABETH CZONICZER, RENÉE GEEN, TATIANA GREENE

ASSOCIATE: HELEN M. CARLSON

INSTRUCTORS: NATHALIE BABEL, SERGE GAVRONSKY, LOUISE JEFFERSON

LECTURERS: DANIELLE HAASE-DUBOSC, HERMINE OBERFEST, PATRICIA TERRY

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

A student majoring in French must take the following language courses: 11, 12 or 13, 14; 17-18; and the equivalent of three full-year literature courses in addition to Course 7-8. The Special Reading Seminar, 37-38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39-40, as one of their literature courses.

Other fields: Courses in history, art history, or other fields which vary with the interest of the student should be elected after consultation with the department. The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in French must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken French, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C-, or Course 5 alone with a minimum grade of B-.

LANGUAGE COURSES

All courses are conducted in French except Course 14.

1-2. Elementary Full-Year Course. 8 points. [14]

Grammar, reading, composition. Work in the language laboratory is required.

PROFESSOR MESNARD, MRS. BABEL, and MISS JEFFERSON.

Section I M Tu W Th F 9. Sections IIa and IIb M Tu W Th F 11.

3, 4. Intermediate Course. 6 points. [14]

Review of grammar and syntax. Translation, reading, oral practice free composition. Work in the language laboratory is required. Prerequisite: Course 1-2 or two years of high school French and an appropriate score on the placement examination. PROFESSORS MESNARD and GREENE, DR. TERRY, MRS. BABEL, MISS JEFFERSON, MRS. HAASE-DUBOSC and MRS. OBERFEST.

Sections Ia and Ib	M W F 10.	Section III	M W F 1:10.
Sections IIa and IIb	M W F 12.	Section IV	Tu Th 10:35-11.50.

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4x. Intermediate Course. Part II. 3 points.

[14]

The equivalent of Course 4 but given in the Autumn Term: Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement examination. PROFESSOR KOHN and MRS. HAASE-DUBOSC.

Section I M W F 9. Section II M W F 10.

5, 6. Third-year Course. 6 points.

[14]

The study of literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement examination. PROFESSORS BREUNIG, CZONICZER and GEEN, MISS CARLSON, DR. TERRY, MRS. BABEL, MR. GAVRONSKY, MISS JEFFERSON, MRS. OBERFEST.

Sections Ia and Ib M W F 9.

Sections III a, b, and c M W F 12.

Sections IIa, b and c M W F 11.

Section IV Tu Th 10:35-11:50.

5y. Third-year Course. Part I. 3 points.

[14]

The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or 4x. PROFESSORS CZONICZER and GEEN. Section I M W F 10. Section II Tu Th 2:10-3:25.

6x. Third-year Course. Part II. 3 points.

[14]

The equivalent of Course 6 but given in the Autumn Term. Prerequisite: Course 5, 5y, or three years of high school French and an appropriate score on the placement examination. PROFESSORS KOHN and GREENE. Section I M W F 12. Section II Tu Th 2:10-3:25.

11, 12. Advanced Composition. 4 points.

[0]

Weekly compositions based on literary texts, together with a review of grammar and syntax in the Autumn Term and translations from English to French in the Spring Term. Written permission of the instructor is required. PROFESSOR MESNARD. M W 3:10.

13. Advanced Translation into French. 2 points.

[0]

Translation from English of various styles of prose and poetry. Written permission of the instructor is required. PROFESSOR GEEN M W 3:10.

14. Advanced Translation into English. 2 points.

[0]

Translation from French of various styles of prose and poetry. Prerequisite: French 5, 6. DR. TERRY. M W 3:10.

15, 16. Oral French, Intermediate Course. 4 points.

[0]

Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 5 or the equivalent, and the written permission of the instructor. PROFESSOR GEEN, MRS. BABEL and MRS. HAASE-DUBOSC. Sections Ia and Ib M W 2:10.

17-18. French Phonetics. 6 points.

[0]

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the language laboratory is part of the course. Open

to students on written permission of the instructor. Limited to 20 students.
 PROFESSOR PLEASANTS. M W F 9.

LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.
 All Barnard courses are conducted in French except Course G4025x.

§7-8. Masterpieces of Literature from the Middle Ages to the Twentieth Century. [14] 6 points.

Lectures and discussions in French on the history of French literature. Analysis of texts, essays, and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisites: Course 6 or a satisfactory score on the French placement test; or Course 5 with a grade of at least B+. Other students from Course 5 and, exceptionally, from Course 4, must have the written recommendation of their instructor. PROFESSORS GREENE and GEEN, MR. GAVRONSKY, MRS. OBERFEST. Section I M W F 10. Section II M W F 11. Section III M W F 1:10 Section IV Tu Th 9:10-10:25.

§7y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I. 3 points. [4]

The equivalent of Course 7 but given in the Spring Term. Credit for Course 7y only on completion of Course 8x. PROFESSOR KOHN. M W F 1:10.

§8x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II. 3 points. [9]

The equivalent of Course 8 but given in the Autumn Term. Prerequisite: Course 7y or the equivalent. PROFESSOR CZONICZER. Tu Th 2:10-3:25.

§21, 22. French Literature in the Middle Ages and the Renaissance. 6 points. [5]

Study of selected works of literature with stress on the relationship to the history and art of the periods. Autumn Term: the Middle Ages. Spring Term: the Renaissance. Prerequisite: Course 7-8, or the written permission of the instructor. MISS CARLSON. M W F 2:10.

§23, 24. French Literature in the Seventeenth Century. 6 points. [3]

Detailed study of selected masterpieces of the classical writers. The nature of French classicism. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR KOHN. M W F 11.

[§25, 26. French Literature in the Eighteenth Century. 6 points. PROFESSOR GEEN.]

Not given in 1963-64.]

§27, 28. French Literature in the Nineteenth Century. 6 points. [6]

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. Autumn Term: Fiction and drama. Spring Term: Poetry. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR BAILEY. Tu Th 9:10-10:25.

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[§29. The French Novel in the Twentieth Century. 3 points.

Not given in 1963-64.]

§31. The French Theatre in the Twentieth Century. 2 points. [9]

The major dramatists and theatrical movements since Naturalism and Symbolism. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR BREUNIG. Tu Th 2:10.

§32. Materials and Techniques of French Poetry. 3 points. [9]

A study of the language of poetry in France: themes, ideas, emotions (the materials); rhyme, imagery, etc. (the techniques); from early poems in fixed form to the "automatic writing" of the surrealists. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR GREENE. Tu Th 2:10-3:25.

§34. LaFontaine. 3 points. [2]

Intensive study of the poetry and prose of LaFontaine. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR KOHN. M W F 10.

37-38. Special Seminar. 4 to 6 points. [0]

Projects organized around a specific theme of French literature. The theme for 1963-64: major French critics from Diderot to the present. The language of criticism in French. PROFESSORS CZONICZER and GEEN. M W 1:10.

39-40. Senior Thesis. 6 points. [0]

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DEPARTMENT. Hours for consultation to be arranged.

G4025x. French Poetry in the Twentieth Century. 3 points.

French Poetry from Symbolism to the present with analyses of significant poems since 1885. Written permission of the instructor required. PROFESSOR BREUNIG. W 4:10-6.

The following courses at Columbia College, open to Barnard students, may be taken by French majors in addition to, but not in lieu of, the three required full-year courses:

C3527y. Racine. 2 points.

PROFESSOR SAREIL. Tu 2:10-4.

C3542y. Diderot and Sterne. 2 points.

MR. SIMON. Tu Th 10.

C3558x. Baudelaire. 2 points.

PROFESSOR LEEFMANS. Tu Th 2:10.

C3663x-C3664y. French Poetry. 6 points.

PROFESSOR FRAME and MR. NOAKES. M W F 1:10.

C3665x-3666y. The French Novel. 6 points.

PROFESSOR LEEFMANS and MR. SIMON. Tu Th 11-12:15.

GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP (Chairman)

ASSOCIATE PROFESSOR: LEONARD ZOBLER

INSTRUCTOR: JANE LANCASTER

ASSISTANT: PATRICIA WHALEN

GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

After Course 1-2, students majoring in geology will take Courses W1111x-W1112y; 19; W4661x, and 60 in partial fulfillment of the major requirement. With the permission of the department six points of calculus or of botany, chemistry, physics, or zoology may be counted towards the major. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a six-hour written examination.

GEOGRAPHY

Geography is the study of the reciprocal relation between earth and man, including the use of natural resources under varying conditions, and the influence of environmental change on man's activities. A student majoring in geography should acquire an appreciation of the dependence of society on the natural features of the earth, such as climate, landforms, soils, water, minerals, and other factors of the natural resource endowment. With a scientific understanding of the earth and its resources, a major is able to prepare resource surveys and regional plans for advanced and backward areas. A background in selected aspects of earth science and social science is essential for the geography major.

The courses in earth science form a separate coherent program that provides an aggregate view of man's physical world. It should appeal to students interested in the purely scientific features of the planet earth. Offerings in earth science include geology, geomorphology, meteorology, climatology, cartography, hydrology, and soils.

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A geography major may concentrate on a particular resource or a world region. In the latter case her program will include courses in the history, culture, and language of the selected area. Other than that, excessive specialization is discouraged.

The major examination in geography will be satisfied by participation in the senior seminar and the completion of an acceptable senior thesis. Seniors are required also to pass a special examination on the use of maps.

CONSERVATION OF NATURAL RESOURCES

Students interested in the human ecology of the earth as the home of man should consider the program in the conservation of natural resources. This major, a combination of earth science and biology, is sponsored jointly by the Departments of Botany and Geology-Geography. The announcement of this program appears under Interdepartmental Offerings, page 52.

GEOGRAPHY

1. 2. Earth Science. 6 points.

[7]

Introduction to the earth sciences. Autumn Term: The size and shape of the earth, the geographic system of earth coordinates (latitude and longitude), cartography and the use of maps, earth-sun relations and time, celestial navigation, descriptive meteorology and climatology. Spring Term: The crust of the earth, mineral and rock identification, evolution of landforms, physiographic regions, oceanography, hydrology, soils, mineral deposits. These courses satisfy the non-laboratory physical science requirement and are especially valuable for prospective teachers. They may be taken independently and in either order for credit. Students who have had Geology 1 should not take Geography 2. DR. LANCASTER. Tu Th 10:35-11:50.

3. World Agricultural Resources and Development. 3 points.

[7]

The geography of world agriculture as influenced by natural, cultural, economic, and political factors. Special topics include: determinism, environmentalism, possibilism, and production factor allocation; population trends, food supplies, and Malthusianism; water and soil resources; commodity production problems and trade conflicts; agrarian structures of backward and advanced nations. A short term report (five pages) on a current resource issue is required. Open to freshman. Satisfies in part the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 10:35-11:50.

4. World Mineral Resources and Urban-Manufactural Regions. 3 points. [7]

The relation of the distribution and utilization of energy and mineral raw materials to the evolution of an urban-manufactural society. Special topics include: energy sources and economic growth; mineral production problems and political conflicts; industrial location factors; manufactural technology and requirements; transportation flows and metropolitan regions; area development programs in backward and advanced regions. A short term paper (five pages) is required on a subject of

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current interest. Open to freshmen. Satisfies in part the contemporary society requirement. **PROFESSOR ZOBLER.** Tu Th 10:35-11:50.

W4311x. Soil and Water Conservation. 3 points.

A study of renewable and non-renewable resources emphasizing the basic scientific principles which guide the development of field conservation methods. Introduction to soil science and soil conservation, to hydrology, and surface and ground water conservation. Consideration is given also to economic, political, and administrative factors involved in policy formulation for such single and multi-purpose projects as TVA. Two one-day field trips are required. Prerequisite: One term of earth science or permission of the instructor. This course fulfills in part the contemporary society requirements. **PROFESSOR ZOBLER.** Tu Th 2:10-3:25.

W4312y. Mineral and Biological Conservation. 3 points.

The development, use, and conservation of economic mineral deposits as stock resources. Examination of the principles of mineral economics and the formulation of national and international political policy. Introduction to the fundamentals of ecology and biological conservation with examples taken from forestry, range lands, fisheries, wildlife, and national parks. Two one-day field trips are required. Prerequisite: One term of physical or biological science. This course fulfills in part the contemporary society requirement. **PROFESSOR ZOBLER.** Tu Th 2:10-3:25.

[16E. Regional Resources of Eastern United States and Canada. 3 points.

DR. LANCASTER.

Not given in 1963-64.]

16W. Regional Resources of Western United States and Canada. 3 points. [12]

Examination of the distinctive resources and basic forces generating social and economic change in western United States and Canada using the techniques of regional analysis. Topics examined in each area include local resource endowment, national policy effects, inter-regional flows and competition, industrial structure, growth trends, and special problems such as depressed areas and urban congestion. This course fulfills in part the contemporary society requirement. **DR. LANCASTER.** Tu Th 3:35-4:50.

17. Elementary Cartography. 3 points. [13]

Introduction to the history, lore, and science of cartography. Practice in map selection, construction, and compilation; in the use of drafting equipment; in field mapping; and in qualitative symbolism. Prerequisite: one term of physical geology or geography, or permission of the instructor. **DR. LANCASTER.** M W 12. Third hour to be arranged.

W4318y. Advanced Cartography. 3 points.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for centrographic analysis. A survey of photogrammetry, including

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some instrumentation and interpretation, and of modern map reproduction methods. Experience in cartographic drafting, design, and evaluation. Permission of the instructor. DR. LANCASTER. M W 12. Third hour to be arranged.

C3082x. Economic Geography of Western Europe. 3 points.

A geographic analysis of the economies of Western European countries and regions within each country in relation to physical and cultural features. Impact of the common market and Free Trade Area on national economies. MR. PRICE. M W 2:40-3:55.

C3062y. Regional Economic Geography of the Soviet Union. 3 points.

A geographic survey of the economic regions of the Soviet Union in relation to their physical and cultural background. Regional development under the Soviet economic system. PROFESSOR MATLEY. Tu Th 2:40-3:55.

GEOLOGY

1. Physical Geology. 4 points.

[2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. PROFESSOR SHARP, DR. LANCASTER and MISS WHALEN. Lec. M W F 10. Lab. (2 hours) M 3:10-5; Tu 9-10:50, 3:35-5:25; W 11-12:50, 2:10-4; Th 8:35-10:25, 2:10-4.

2. Historical Geology. 4 points.

[2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR SHARP, DR. LANCASTER and MISS WHALEN. Lec. M W F 10. Lab. (2 hours) M 3:10-5; Tu 9-10:50, 3:35-5:25; W 11-12:50, 2:10-4; Th 8:35-10:25, 2:10-4.

W1111x-W1112y. Elements of Mineralogy and Petrology. 3 points.

The fundamentals of mineralogy and petrology. Autumn Term: Crystallography, the physical properties, origin, and the economic and geologic importance of the common minerals, with emphasis on the use of physical properties and chemical testing in mineral identification. Spring Term: Primarily a basic course in petrology: the properties and relations of the rock-forming minerals, and the genesis, mode of emplacement, and alteration phenomena of the major rock types—igneous, metamorphic, and sedimentary. The laboratory work is devoted to the study of the mineral make-up and physical properties of rocks, their identification and classification. Prerequisite: Course 1. PROFESSOR HOLMES. Lec. Tu Th 11. Lab. Tu 2:10-4.

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[19. Structural Geology.] 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1963-64.]

W4661x. Introduction to Paleontology. 3 points.

A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. M W 11. Lab. F 2:10-4.

W4226x. Experimental Marine Sedimentology. 3 points.

Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. PROFESSOR FAIRBRIDGE. W F 2:10. Lab. W or F 3:10-5.

27. Principles of Geomorphology. 3 points. [5]

Lectures, map study, and readings on the principles of geomorphology. The origin and evolution of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 2:10.

G4330y. Geomorphology of the Western United States. 3 points.

Lectures, map study, and readings on the geomorphic division of the Western United States. Prerequisite: one year of geology. Alternates with a similar course on the Eastern United States. PROFESSOR SHARP. M W F 2:10.

[G4332y. Geomorphology of the Eastern United States.] 3 points. PROFESSOR SHARP.

Not given in 1963-64.]

[W4053x. Geology of the New York Region.] 1 point. PROFESSOR FAIRBRIDGE.

Not given in 1963-64.]

59, 60. Seminar in Earth Science. 6 points. [0]

Readings, discussions, reports on various topics taken from the research literature. Preparation of the senior research paper. Required of senior majors in geology, geography and conservation for one or two terms. PROFESSORS SHARP and ZOBLER. Th 4:10-5:25.

GERMAN

ASSOCIATE PROFESSOR: LOUISE G. STABENAU (Chairman)

ASSISTANT PROFESSORS: URSULA L. JARVIS, GERTRUD SAKRAWA

INSTRUCTOR: HELMUT GUTMANN

LECTURERS: BRIGITTE L. BRADLEY, SABINE D. JORDAN

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is required to take a minimum of 28 points above the intermediate level, including four points of Course 9, 10, Advanced Practice, and Course 61, 62.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of one three-hour written section and an oral section of at least one hour.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C-, or Course 5 alone with a minimum grade of B+.

LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1. All students in the beginners' course will be expected to use the facilities of the language laboratory.

1-2. Elementary Full-Year Course. 8 points.

[15]

Elements of grammar, easy reading, written and oral practice. PROFESSOR SAKRAWA, MR. GUTMANN, MRS. BRADLEY and MRS. JORDAN. Section I M W F 9. Sections II and III M W F 11. Section IV M W F 12. Required oral sections may be chosen as follows: Sections I and II Tu Th 9. Section III Tu Th 11. Section IV Tu Th 2:10.

3, 4. Intermediate Course. 6 points.

[15]

Reading and discussion of works by representative modern authors. Compositions

GERMAN

in German. Grammar review. Prerequisite: Course 1-2 or a satisfactory grade on the placement examination. PROFESSORS STABENAU and JARVIS and MR. GUTMANN. Section I M W F 11. Section II M W F 12. Section III M W F 1:10.

7, 8. Intermediate Practice. 2 or 4 points. [0]

Intensive oral practice in conjunction with Course 3, 4 (1 point per term); intensive written practice may be taken for one additional point, with third hour to be arranged. MRS. JORDAN and MR. GUTMANN. Tu Th 4:10.

9, 10. Advanced Practice. 2 points. [0]

Required of all majors in their junior and senior years. Recommended to all students in advanced literature courses. Aimed at perfecting oral and written expression. Individual conferences with instructor and work in the language laboratory. PROFESSOR SAKRAWA and MR. GUTMANN. Hours to be arranged.

LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

All courses are conducted in German except Course 55, 56.

§5, 6. Introduction to the Study of German Literature from the Eighteenth Century to the Present. 6 points. [15]

Intensive reading and critical interpretation of significant works in prose, poetry and the drama. Short papers in German. Some practice in translation. Prerequisite: Course 4 or a satisfactory grade on the placement examination. PROFESSORS STABENAU and SAKRAWA. Section I M W F 9. Section II M W F 11.

§15, 16. The Age of Goethe. 6 points. [5]

Intensive study of selected works representative of *Sturm und Drang*, and of the classical and romantic periods. Lectures and discussions. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR JARVIS. M W 2:10-3:25.

§25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. [6]

Reading and discussion of the major works of the most representative dramatists. Autumn Term: Schiller, Kleist, Grillparzer, Hebbel. Spring Term: Büchner to Dürrenmatt. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR STABENAU. Tu Th 9. Hour for third point to be arranged.

[§27, 28. Modern German Prose.] 6 points. PROFESSOR SAKRAWA.

Not given in 1963-64.]

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§31. German Lyric Poetry. 2 or 3 points.

[15]

Study of the lyric genre in German literature. Analysis of representative works. Group discussions and written reports. PROFESSOR SAKRAWA. Tu Th 4:10. Hour for third point to be arranged.

[§35. Goethe's Faust. 2 or 3 points. PROFESSOR STABENAC.

Not given in 1963-64.]

[§45, 46. German Literature from the Earliest Times to the Eighteenth Century. 6 points. MRS. BRADLEY.

Not given in 1963-64.]

[55, 56. German Literary Tradition: Intellect and Art (in English). 6 points. PROFESSOR JARVIS.

Not given in 1963-64.]

61, 62. Seminar and Senior Essay. 6 points.

[0]

Required of seniors majoring in German. Open to other qualified juniors and seniors by permission of department chairman only. Autumn Term: Intensive study of the dramatic and critical writings of Bertold Brecht. Introduction to the use of various types of primary and secondary sources as a basis for seminar discussion and individual reports. Spring Term: Senior essay to be written in consultation with the instructor. PROFESSOR JARVIS. Tu Th 10:35-11:50. Hours for conferences in the Spring Term to be arranged.

COLUMBIA COLLEGE COURSES

Some upper level courses can be found at Columbia during the years when they are not offered at Barnard.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Facilities.

GOVERNMENT

PROFESSORS: PHOEBE MORRISON (Chairman), ¹THOMAS P. PEARDON

ASSISTANT PROFESSORS: DEMETRIOS CARALEY, -----

INSTRUCTOR: JIMMYE ELIZABETH KIMMEL

LECTURER: MARIAN S. MARKOW

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer, or to engage in any similar activity.

The foundation for a major in government is Course 1, 2 and Course 45, 46. In addition a student majoring in government must take one of the fundamental courses: international relations (11, 12), modern political movements (7, 8), the American constitutional system (25, 26), or political theory (31, 32). In her senior year, in order more adequately to explore techniques of investigation and to have an opportunity for more specialized work, she must take one section of the senior seminar. As part of the work of the senior seminar, she is required to write a senior essay, to be completed to the satisfaction of the department.

These requirements are so drawn as to permit a major in government, with the assistance of her adviser, to plan a program which will place special emphasis on particular interests, such as American government, international relations, or the political institutions of Western Europe.

A student may apply through appropriate channels for permission to take any course offered in the department, for additional credit, after she has secured the permission of the instructor in that course, except Course 1, 2. Such additional credit will be based either upon a special program of reading or the preparation of a special report.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

See also International Relations, page 49.

FUNDAMENTAL COURSES

1, 2. Modern Constitutional Democracies. 6 points. [3]

Governmental institutions, popular representation and the theory of modern democracy in the United Kingdom, the United States, Canada, and France, with illustrative material from Australia and India. Together these courses satisfy the requirement in contemporary society. Autumn Term: PROFESSOR PEARDON and Miss MARKOW. Spring Term: PROFESSOR MORRISON and Miss MARKOW. Lec. M W 11. Conference hours: Tu 10, 2:10; W 10, 1:10; Th 9, 11; F 11.

¹Absent on leave, Spring Term.

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7. **Modern Political Movements.** 3 points.

[7]

Recent changes in modern politics, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR PEARDON. Tu Th 10:35-11:50.

9. **American Political Parties and Practices.** 3 points.

[2]

The role of the party system, interest groups, and public opinion in American politics. First-hand observation of political campaigns, legislative bodies, and civic organizations is required. PROFESSOR CARALEY. M W F 10.

10. **American State and Municipal Government.** 3 points.

[2]

Patterns of state and municipal government and politics. Particular attention is given to the political institutions of New York City and New York State. First-hand observation of political campaigns and legislative bodies is required. PROFESSOR CARALEY. M W F 10.

11. **International Relations.** 3 points.

[5]

An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. MISS KIMMEY. M W 2:10-3:25.

12. **International Organization.** 3 points.

[5]

An examination of some ways of dealing with international political problems: diplomacy, war, international law, international organization (pre-League, League of Nations, United Nations, North Atlantic Treaty Organization). MISS KIMMEY. M W 2:10-3:25.

25, 26. **The Constitution of the United States.** 6 points

[6]

Problems in the administration of justice and basic constitutional concepts are studied by the use of materials on constitutional interpretation. Designed for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2 or History 9-10, or the equivalent. PROFESSOR MORRISON. Tu Th 9:10-10:25.

27. **Executive Policy-Making and Administration.** 3 points.

[7]

Problems of policy-making and administration, particularly at the presidential and cabinet level of the executive branch. Analysis of such concepts as authority, leadership, decision-making, and informal organization. PROFESSOR CARALEY. T Th 10:35-11:50.

28. **Legislative Politics.** 3 points.

[7]

The interrelations of structure, politics and policy in the United States Congress. Intensive analysis of a recent session of Congress through first-hand examination of hearings, reports, debates and voting patterns. PROFESSOR CARALEY. T Th 10:35-11:50.

GOVERNMENT

[30. **The American Democratic System.** 3 points. PROFESSOR CARALEY.

Courses 28 and 30 are to be given in alternate years.

Not given in 1963-64.]

31, 32. **The History of Political Thought.** 6 points. [3]

Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR CARALEY. M W F 11.

SPECIALIZED COURSES

15. **The Soviet Union.** 3 points. [4]

Analysis is made of Soviet politics before and after Stalin; the current structure of Soviet ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts, and the round of daily life; the limits of totalitarian control. Prerequisite: Course 1, 2 or History 1-2. —————. M W F 1:10.

[16. **The Communist Orbit.** 3 points.

Not given in 1963-64.]

17. **Introduction to International Law.** 3 points. [5]

Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality and other selected issues. Prerequisite: Course 11. PROFESSOR MORRISON. M 2:10-4. Third hour to be arranged.

18. **The United States in Contemporary World Politics.** 3 points. [9]

Important decisions in American foreign policy since World War II. Discussion of the United Nations, the movement towards European integration, the problem of foreign aid, and the creation of regional defense systems. Open to juniors and seniors. MISS KIMMEY. Tu Th 2:10-3:25.

20. **The Soviet Union in World Affairs.** 3 points. [9]

Study is made of Soviet foreign policy since 1945, with special emphasis on the relation between Soviet diplomacy and international communism, the expansion of the "camp of socialism," and recent penetration of the underdeveloped areas. Prerequisite: Course 1, 2 or History 1-2. —————. Tu Th 2:10-3:25.

45, 46. **Junior Readings.** 6 points. [0]

Students will read selected classics. The reading lists for this course should be obtained by majors at the end of their sophomore year. Required of all majors in their junior year; open only to majors. ————— and Miss MARKOW. Bi-weekly meetings of two hours: M 3:10-5; Tu 10-11:50; W 9-10:50.

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61-62. Senior Seminar. 8 points.

[0]

Discussions and conferences on the topic of the senior essay.

Section I	PROFESSOR PEARDON.	Tu 4:10-6.
Section II	PROFESSOR MORRISON.	W 4:10-6.
Section III	-----.	Th 4:10-6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

G4241x. The Political Setting of Public Administration. 3 points. PROFESSOR SAYRE. W 4:10-6.

G4242y. The Managerial Aspects of Public Administration. 3 points. PROFESSOR SAYRE. W 4:10-6.

G4471x. Political Institutions of Japan. 3 points. PROFESSOR MORLEY. W 4:35-6:15.

G4472y. Political Institutions of China. 3 points. PROFESSOR MORLEY. W 4:35-6:15.

GREEK AND LATIN

ASSOCIATE PROFESSOR: ¹HELEN H. BACON (Chairman)

ASSISTANT PROFESSOR: LYDIA H. LENAGHAN (Acting Chairman)

INSTRUCTORS: ELIZABETH CONSTANTINIDES, -----.

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD

STUDENTS:

PROFESSORS: MOSES HADAS, GILBERT HIGHET

ASSOCIATE PROFESSORS: COLEMAN H. BENEDICT, HOWARD N. PORTER

ASSISTANT PROFESSORS: WILLIAM M. CALDER, III, DANIEL GERSHENSON,
THOMAS A. SUITS

INSTRUCTORS: JAMES A. COULTER, WILLIAM NETHERCUT, G. KEVIN WHITFIELD

PRECEPTOR: JOHN VAIO

The general objectives towards which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-eight points in Greek above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Latin: Twenty-eight points in Latin above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Greek and Latin combined can be arranged for qualified students on consultation with the major adviser.

Other fields: Courses in ancient art, archaeology, history, philosophy, and other languages are strongly recommended.

The major examination at the end of the senior year consists of two three-hour examinations. One will test the student's understanding of style and language, and her ability to read aloud both prose and verse. The other will test general knowledge of the major field.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign language requirement for the degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 11, 12 with a minimum grade of C--, or by passing a placement examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

CLASSICAL CIVILIZATION

1. Classical Myth. 3 points.

[7]

A study, through translations, of classical myths in such authors as Hesiod and

¹ Absent on leave, 1963-64.

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Ovid. May be counted towards the second part of the humanities requirement. **Miss CONSTANTINIDES.** Tu Th 10:35-11:50.

C3123x. Greek Drama and its Influences. 3 points.

A study, through translations, of the major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle. **PROFESSOR HADAS.** M W F 11.

[C3126y. Epic in Greece and Rome.] 3 points.

Not given in 1963-64.]

C3128y. Historiography in Greece and Rome. 3 points.

A study, through translations, of Herodotus, Thucydides, Polybius, Livy, and Tacitus, as well as the lesser Greek and Roman historians. Given every other year, in alternation with Course C3126y. ----- M W F 11.

GREEK LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

1-2. Elementary Full-Year Course. 8 points. [5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. ----- M W F 2:10 and a fourth hour to be arranged.

§11. Plato: One dialogue; Euripides: One play. 3 points. [3]

Prerequisite: Course 1-2, or the equivalent. **PROFESSOR LENAGHAN.** M W F 11.

§12. Selections from Homer. 3 points. [3]

Prerequisite: Course 11 or permission of the instructor. **Miss CONSTANTINIDES.** M W F 11.

[§V3305x. Greek Tragedy.] 3 points. **PROFESSOR BACON.**

Not given in 1963-64.]

[§V3306y. Greek Historians.] 3 points. **PROFESSOR KAHN.**

Not given in 1963-64.]

§V3307x. Greek Comedy. 3 points.

Selections from Aristophanes; studies in the origin and development of Greek comedy. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3305x. **PROFESSOR BENEDICT.** M W F 10.

§V3308y. Greek Philosophy. 3 points.

Selections from Plato; studies in the development of Greek philosophy. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3306y. **DR. COULTER.** M W F 10.

GREEK AND LATIN

§V3309x. Selections from Greek Literature. 3 points.

Lyric and elegiac poetry; selections from such poets as Solon, Sappho, Alcaeus and Pindar. Prerequisite: Course 11, Course 12, or the equivalent. Tu Th 3:10—4:25.

§V3310y. Selections from Greek Literature. 3 points.

Aeschylus' *Agamemnon*: a detailed study of the Greek text. Prerequisite: Course 11, Course 12, or the equivalent. PROFESSOR CALDER. Tu Th 3:10—4:25.

V1109x—V1110y. Prose Composition: First course. 4 points.

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. MR. VAIO. Th 4:10—5:50.

V3319x—V3320y. Prose Composition: Second course. 4 points.

A review of grammatical principles through the writing of sentences in Greek. PROFESSOR GERSHENSON. Th 1:10—2:50.

61—62. Major Seminar. 6 points.

[0]

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Homer and Greek literature. Review and coordination of the work in the major. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

LATIN LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

1—2. Elementary Full-Year Course. 6 points.

[4]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. MISS CONSTANTINIDES. M W F 1:10.

3. Cicero: Selections. 3 points.

[2]

Prerequisite: Course 1—2 or the equivalent. M W F 10.

4. Vergil: Selections from Aeneid I—VI. 3 points.

[2]

Prerequisite: Course 3 or the equivalent. MISS CONSTANTINIDES. M W F 10.

§11. Livy: Selections; Vergil: Eclogues. 3 points.

[4]

Prerequisite: Course 4 or the equivalent. PROFESSOR LENAGHAN. M W F 1:10.

§12. Catullus and Horace: Lyric Poems. 3 points.

[4]

Prerequisite: Course 11 or the equivalent. M W F 1:10.

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[§V3305x. Roman Historians. 3 points. PROFESSOR BENEDICT.

Not given in 1963-64.]

[§V3306y. Roman Comedy and Satire. 3 points. PROFESSOR LENAGHAN.

Not given in 1963-64.]

§V3307x. Roman Lyric and Elegiac Poetry. 3 points.

Selections from Catullus, Horace, Tibullus and Propertius. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3305x. PROFESSOR SUITS. M W F 10.

§V3308y. Roman Philosophy. 3 points.

Selections from Lucretius; studies in the Hellenistic background of Roman philosophy and in the philosophic writings of Cicero and Seneca. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year in alternation with Course V3306y. PROFESSOR BENEDICT. M W F 10.

§V3309x. Selections from Latin Literature. 3 points.

A survey of Cicero's philosophical essays; one essay will be studied in detail. Prerequisite: Course 11, Course 12, or the equivalent. PROFESSOR BENEDICT. M W 4:10-5:25.

§V3310y. Selections from Latin Literature. 3 points.

Selections from Livy; studies in Roman historiography. Prerequisite: Course 11, Course 12, or the equivalent. PROFESSOR LENAGHAN. M W 4:10-5:25.

V1109x-V1110y. Prose Composition: First course. 4 points.

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. PROFESSOR LENAGHAN. Th 4:10-5:50.

V3319x-V3320y. Prose Composition: Second course. 4 points.

A review of grammatical principles through the writing of sentences in Latin. MR. NETHERCUT. Th 1:10-2:50.

61-62. Major Seminar. 6 points.

[0]

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Vergil and Roman literature. Review and coordination of the work in the major. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

GRADUATE COURSES

Graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors. Their description may be found in the Announcement of the Graduate Faculties.

HISTORY

PROFESSORS: RENÉ ALBRECHT-CARRIÉ (Chairman), BASIL RAUCH, CHILTON WILLIAMSON

ASSOCIATE PROFESSORS: SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON

ASSISTANT PROFESSOR: GEORGE WOODBRIDGE

ASSOCIATE: ANNETTE KAR BAXTER

LECTURER: PATRICIA H. LABALME

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSORS: NORMAN I. CANTOR, MORTON SMITH

ASSISTANT PROFESSOR: HARVEY DYCK

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

- (a) Three fundamental courses: European history (1-2), American history (9-10; 33-34; 45-46; or 55-56), and ancient or medieval history.
- (b) Two courses in the category of specialized courses to be chosen with a view to concentration in the broad fields of either American or European history;
- (c) Junior Readings, (71-72));
- (d) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is required to write a senior essay. Students are strongly advised to elect a four-course program for their senior year.

In view of the close relation of the disciplines that go under the name of social sciences, a student majoring in history is also required to elect 12 points distributed in two social sciences other than history.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, and the program in Oriental Studies.

INTRODUCTORY COURSES

1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. [16]

Autumn Term: Foundations of modern Europe; from the fifteenth century to

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the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Term: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS BURRELL and WOODBRIDGE.

Section I M W F 9. Section II Tu Th 2:10-3:25.

C1105x-C1106y. Ancient History: A Survey of the Ancient Mediterranean World. 6 points.

Autumn Term: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Term: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world," the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9.

7-8. Medieval Thought, Culture, and Science. 6 points.

[16]

Introduction to medieval civilization from the third to the fifteenth century. The course will be conducted in discussion groups. Independent research and extensive reading on medieval literature, art, and music, as well as on political, economic, and ecclesiastical history. Students electing this course should see the instructor as soon as possible in order to reserve a place in one of the discussion groups. PROFESSOR CANTOR.

Section I Tu 2:10-4:30. Section II Tu 5:30-8. Section III Th 1:30-4.

9-10. History of the American Nation from Colonies to World Power. 6 points.

[7]

This course aims to broaden and deepen the student's understanding of the American past in terms of its economic, political, cultural and intellectual aspects. For students who do not have adequate grounding in general American history. PROFESSOR RAUCH. Tu Th 10:35-11:50.

SPECIALIZED COURSES

11, 12. England from the Norman Conquest to the Twentieth Century. 6 points.

[7]

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginning of the welfare state. PROFESSOR BURRELL. Tu Th 10:35-11:50.

13, 14. France from Charlemagne to the Twentieth Century. 6 points.

[2]

A survey of the emergence of France as a nation, its rise to a position of cultural and political dominance, and its adjustments to contemporary conditions. PROFESSOR WOODBRIDGE. M W F 10.

[23. Nineteenth Century Europe, 1815-1870. 3 points.]

PROFESSOR CARRIÉ.

Not given in 1963-64.]

HISTORY

[24. Nineteenth Century Europe, 1870-1918. 3 points. PROFESSOR CARRIÉ.

Not given in 1963-64.]

25. Twentieth Century Europe. 3 points. [9]

The first World War and the ensuing settlements. The apparent liquidation of the war; the League; new political systems. The collapse of the nineteen thirties. The second World War and its legacy. Prerequisite: Course 1-2 or its equivalent. PROFESSOR CARRIÉ. Tu Th 2:10-3:25.

29. The Modern Mediterranean World. 3 points. [6]

The evolution of the Mediterranean world during the nineteenth and twentieth centuries. The Eastern Question and the Powers. The impact of nationalism and imperialism. The end of the Ottoman Empire; Italian and Spanish Fascism. The liquidation of colonialism and the emergence of the Arab world. Prerequisite: Course 1-2 or its equivalent. PROFESSOR CARRIÉ. Tu Th 9:10-10:25.

33-34. Studies in American Colonial History. 6 points. [3]

Economic, religious, social and intellectual aspects of colonial culture. The Revolutionary Movement: ripeness of the colonies for rebellion; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. Prerequisite: Course 9-10 or its equivalent. PROFESSOR HARRINGTON. M W F 11.

35, 36. History of the British Empire-Commonwealth. 6 points. [3]

An historical survey from Tudor times to the second World War, with special attention to those phases of the subject less likely to be familiar to American students. Prerequisite: Preceding or parallel: Course 1-2. PROFESSOR WILLIAMSON. M W F 11.

37, 38. History of Russia. 6 points. [1]

A history of the Russian people, state and culture from their origins to the present. Autumn Term: Russia to 1900. Spring Term: Revolutionary and Communist Russia. Prerequisite: Course 1-2 or an equivalent course. PROFESSOR DYCK. M W F 9.

[45, 46. Studies in Middle American History. 6 points. PROFESSOR WILLIAMSON.

Not given in 1963-64.]

[53-54. History of United States Foreign Relations. 6 points. PROFESSOR RAUCH.

Not given in 1963-64.]

55-56. Studies in Modern American History. 6 points. [9]

Economic, social, political, and cultural topics from 1876 to today will be studied

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by means of lectures, individual reading programs, written reports, and group discussions. Prerequisite: Course 9-10 or its equivalent. PROFESSOR RAUCH. Tu Th 2:10-3:25.

57, 58. History of Religion in America. 6 points.

[5]

The sixteenth century religious revolution and its skewed representation in colonial America; the influence of the American environment and of broad cultural movements such as the Enlightenment, Romanticism, science, scholarship and secularism on religious developments in the United States; the modern theological renaissance and contemporary America. Prerequisite: Course 9-10 or its equivalent. PROFESSOR HARRINGTON. M W F 2.

59-60. The Development of Historical Thinking. 6 points.

[5]

A consideration of the ways in which man has conceived of his past and his future and what he has thought about the nature of history during two millenia. The course will lean heavily on readings and discussion. An essay will be written during each term. PROFESSOR BURRELL. W 2:10-4.

71-72. Junior Readings. 6 points.

[0]

Students will read classics in history; brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read and discuss historical works critically. Required of all majors in the junior year; open only to majors. PROFESSOR WILLIAMSON, DR. BAXTER and DR. LABALME. Bi-weekly meetings. Tu 4:10-6.

SEMINARS

Admission to the seminars is by permission of the department. History majors should file application with the chairman in the spring of their junior year, indicating the order of their choice of seminars.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the chairman of the Committee on British Civilization.

81-82. Senior Seminars in European Civilization. 6 points.

[0]

Research in the literature of European issues, including nationalism, socialism, the balance of power, etc., and the presentation of the results in seminar discussion and the form of the senior essay. PROFESSORS WILLIAMSON and WOODBRIDGE. Section I W 4:10-6. Section II Th 4:10-6.

83-84. Seminar in American Studies. 8 points.

[0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion. PROFESSOR RAUCH. W 4:10-6.

HISTORY

87-88. Seminar in Historians and Historiography. 6 points. [0]

Studies both of individual historians and of the treatment of specific topics by historians since the seventeenth century. Emphasis will be placed on America, but opportunity will be given for the study of selected European writers. PROFESSOR HARRINGTON. W 4:10-6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the courses will be found in the Announcement of the Graduate Faculties.

HYGIENE

DR. MARJORY J. NELSON, College Physician

DR. RICHARD G. ABELL, Lecturer in Mental Hygiene

1. **Hygiene.** 2 points [12]

A study of the principles of physical and mental health.

Required of all freshmen. Required of all transfer students who do not pass the exemption test at the time of registration. DR. NELSON and DR. ABELL. Tu Th 4:10-5.

ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA LORCH
(Chairman for Barnard College)

INSTRUCTOR: HOWARD I. NEEDLER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: PAUL O. KRISTELLER, HOWARD R. MARRARO, JOSEPH A. MAZZEO,
MARIO A. PEI, PETER M. RICCIO

ASSOCIATE PROFESSORS: JOHN NELSON, OLGA M. RAGUSA, LUCIANO REBAY
(Chairman for Columbia College).

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) a fair ability in understanding and interpreting literary texts in Italian.

Courses: 28 points, exclusive of language courses, to be planned as early as possible in consultation with the department.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, with a minimum grade of C-, or completion of Course V3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture, and literature. A program of lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

V1101x—V1102y. Elementary Full-year Course. 6 or 8 points.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with Spanish 1—2. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is a required part of the course.

Section I	PROFESSOR LORCH.	Tu Th 11—12:15; F 12.
Section II	PROFESSOR NELSON.	M W 11—12:15; Th 12.
Section III	PROFESSOR REBAY.	Tu Th 11—12:15; F 12.
Section IV	MR. NEEDLER.	Tu Th 11—12:15; F 12.

V1201x–V1202y. Intermediate Course. 6 points.

A review of the essentials of grammar, intensive and extensive reading, translation, composition, and practice in conversation.

Section I	MR. NEEDLER	M W F 9–9:50.
Section II	—————.	M W F 10–10:50.

Courses marked thus § will count towards the college requirement in literature.

§V1315x. Readings in Modern Italian Literature. 3 points. —————.

Tu Th 3:10–4:25.

§V3333x–V3334y. Introduction to Italian Literature. 6 points.

Reading and interpretation of major Italian authors. Training in composition. Designed for Italian majors and concentrators. Prerequisite: permission of the department. PROFESSOR REBAY. W F 3:10–4:25.

§V3535x–V3536y. Italian Literature of the Thirteenth and Fourteenth Centuries. 6 or 8 points.

Reading and interpretation of selections from the Sicilian school, the *dolce stil nuovo*, and Dante (first term); from Petrarca and Boccaccio (second term). Prerequisite: permission of the department. MR. NEEDLER. M W F 2:10.

§V3537x. Italian Humanism and the Renaissance. 3 or 4 points.

Critical readings of selections from Valla, Alberti, Poliziano, Lorenzo, Leonardo, Machiavelli, Castiglione, Ariosto, Michelangelo, Tasso. Prerequisite: permission of the department. —————. M 3:10, Tu Th 2:10.

[§V3639x–V3640y. Italian Literature from 1600 to 1850.] 6 or 8 points.

Not given in 1963-64.]

§V3642y. Studies in the Italian Theatre. 3 or 4 points.

The origins, Poliziano's *Orfeo*, Tasso's *Aminta*, *commedia dell'arte*, the melodrama, Goldoni, Alfieri, Pirandello. Prerequisite: permission of the department. PROFESSOR LORCH. Tu Th 5:10–6:25.

Courses in English for students with no knowledge of Italian. (A student of Italian may take them with the permission of the instructor.)

V1107x–V1108y. Special Reading Course. 4 points.

Discussions of readings in Italian art, history, science, music, and letters. Individual reading assignments are generally given in that field of Italian culture most intimately associated with the student's major interest. Permission of the instructor required. PROFESSOR RICCIO. W 2:10–3:40.

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V1121x. The Italian Renaissance and its Classical Background. 2 or 3 points.

Machiavelli's *Prince* and *Discourses*; choice of Livy or Tacitus; the Italian theatre of the fifteenth and sixteenth centuries; choice of Aristophanes, Plautus, or Seneca. Lectures and discussions. The student will write an essay on a subject of his choice. For a third point work on a special project is required. Students with knowledge of Italian or Latin are encouraged to read the authors in the original. **PROFESSOR LORCH.** Tu 3:10-4:40.

V1122y. Italian Literature from 1600 to 1900. 2 or 3 points.

Readings in translation from the works of Galilei, Marino, Metastasio, Vico, Gozzi, Parini, Alfieri, Foscolo, Leopardi, Manzoni, Carducci, Pascoli, D'Annunzio. Lectures and discussions. The student will write an essay on a subject of his choice. For a third point work on a special project in consultation with the instructor is required. Students with knowledge of Italian are encouraged to read the authors in the original. **PROFESSOR LORCH.** Tu 3:10-4:40.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the chairman of the department. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are recommended:

G4001x-G4002y. A Survey of the History of Italian Literature. 6 points. **PROFESSOR MARRARO.** Tu 7:10-9 p.m.

G4053x-G4054y. Contemporary Italian Literature [in Italian]. 6 points. **PROFESSOR REBAY.** Th 6:40-8:30 p.m.

G4062y. Alfieri and Foscolo. 3 points. **PROFESSOR RAGUSA.** Tu Th 5:10.

G4083x-G4084y. Italian Literature of the Fourteenth and Fifteenth Centuries [in Italian]. 6 points. **PROFESSOR LORCH.** M 5:10-7.

G4087x-G4088y. Italian Literature of the Sixteenth Century. 6 points. **PROFESSOR NELSON.** W 6:40-8:30 p.m.

G4097x. Italian Literary Criticism of the Twentieth Century. 3 points. **PROFESSOR RICCIO.** Hours to be arranged.

The following courses in the School of General Studies are open on the recommendation of the department:

F1221x-F1222y. Intermediate Conversation [in Italian]. 4 points. ----- **M W 5:40-6:55.**

F3335x-F3336y. Advanced Composition and Translation. 6 points. **DR. PIETROSI.** Tu Th 7:10-8:25 p.m.

F3449x-F3450y. Contemporary Italian Literature. 6 points. **PROFESSOR MARRARO.** M W 5:40-6:55.

MATHEMATICS

PROFESSORS: EDGAR R. LORCH, WALTER C. STRODT

ASSOCIATE PROFESSOR: JOANNE ELLIOTT (Chairman)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: ELLIS R. KOLCHIN, BERNARD O. KOOPMAN, HERBERT ROBBINS,
PAUL SMITH

ASSOCIATE PROFESSOR: LAJAS TAKÁCS

ASSISTANT PROFESSOR: HYMAN BASS

RITT INSTRUCTORS: EDWARD G. EFFROS, ROBERT E. MACRAE, BARRY
MITCHELL, RICHARD SACKSTEDER

A major in mathematics: A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. The basic courses in algebra and analysis, Courses W3040x—W3041y and W3161x—W3162y, are strongly recommended as an introduction to modern mathematical concepts and as a foundation for advanced work in mathematics. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Graduate Faculties.

Other fields: Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. Those interested in the field of computing machines may consult the bulletin of the Watson Scientific Computing Laboratory for courses in this area of applied mathematics. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

Advanced Placement: Students entering with advanced placement should consult the department.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) an oral examination administered by the department.

7, 8. Mathematical Analysis. 6 points.

[2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. —————. MW F 10.

15x (or 15y). Calculus I. 3 points.

[1]

Differential calculus of functions of one variable. Analytic geometry will be introduced as needed. Prerequisite: Trigonometry. PROFESSORS ELLIOTT and —————. MW F 9. Fourth hour to be arranged.

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16x (or 16y). Calculus II. 3 points. [1]

Integral calculus of functions of one variable. Infinite sequences and series. Prerequisite: Course 15x. PROFESSOR ELLIOTT and —————. M W F 9. Fourth hour to be arranged.

25x. Calculus III. 3 points [2]

Vectors, matrices, determinants, analytic geometry of space, functions of several variables, partial derivatives. Prerequisite: Differential and integral calculus. —————. M W F 10.

26x. Calculus IV. 3 points. [3]

Taylor's theorem in several variables, maxima and minima, multiple integration. Prerequisite: Course 25. —————. M W F 11.

56. Advanced Calculus. 3 points [10]

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line and surface integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions. Prerequisite: Partial derivatives and multiple integrals. —————. M W F 3:10.

[61. Introduction to Modern Mathematics. 3 points.

Not given in 1963-64.]

W3005x-W3006y. Advanced Calculus for Science Majors. 6 points.

Taylor's theorem and power series in several variables; maxima and minima: directional derivatives and gradients; line and surface integrals; Green's and Stokes' theorems; change of variables in multiple integrals; problems in mathematical physics. Elements of the theory of functions of a complex variable as an instrument for the physical sciences and engineering. Prerequisite: Course 26 with a grade of B or better. DR. ABRAHAM. Tu Th 1:10-2:25.

W3027x (or W3027y). Differential Equations. 3 points.

The solution of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Course 26 or equivalent. Autumn Term: DR. SACKSTEDER. Tu Th 5:40-6:55. Spring Term: DR. MITCHELL. M W F 10.

W3028y. Partial Differential Equations. 3 points.

The solution of partial differential equations, with applications to problems in geometry and mechanics. Prerequisite: Course W3027x or equivalent. DR. SACKSTEDER. Tu Th 5:40-6:55.

W3040x-W3041y. Introduction to Modern Algebra. 6 points.

Primarily for majors. Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus through partial derivatives and multiple integrals. DR. MACRAE. M W 2:40-3:55.

W3161x-W3162y. Introduction to Modern Analysis. 6 points.

Selected topics from among the following: Metric spaces and their completion,

topological spaces and the theory of continuous functions and convergence, inverse mapping theorems and existence theorems for differential equations, differential forms and their integrals, Fourier transforms. Prerequisite: Calculus through partial derivatives and multiple integrals. PROFESSOR KURANISHI.

Tu Th 1:10–2:25.

W3202x (or W3202y). Introduction to Algebra. 3 points.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Differential and integral calculus. Autumn Term: DR. GUILLEMIN.

M W 5:40–6:55. Spring Term: DR. BARR. Tu Th 10, W 12.

G4010x. Fundamental Concepts of Mathematics. 3 points.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, and real and complex numbers. Prerequisite: Course 26. ————— Tu Th 2:40–3:55.

Mathematical Statistics G4105x (or G4105y). Probability. 4½ points.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chisquare, t, and F distributions. Prerequisite: Course 26. PROFESSORS ROBBINS and TAKÁCS. Autumn Term: M W 5:40–6:55. Spring Term: Tu Th 11–12:15.

Mathematical Statistics G4106y. Elementary Theory and Applications of Stochastic Processes. 3 points.

Special topics in probability theory which are important in applications: Markov chains, renewal theory, random walks, recurrent events, queuing theory, elementary stochastic processes. Prerequisite: Course G4105. PROFESSOR TAKÁCS. Tu 5:40–7:30.

G4161x–G4162y. Analysis. 9 points.

Elements of general topology. Theory of functions of one and several real variables: Continuity, differentiation, Riemann integration, functional equations and dependence. Development of the theory of measure and integration; the Lebesgue integral in n-dimensional space; theorems of Fubini, Riesz-Fischer, Egoroff, Radon-Nikodym; elements of Fourier analysis; integration in groups. Radon measures and Daniell integrals. Prerequisite or parallel: Course G4010x.

DR. EFFROS. Tu Th 1:10–2:25.

G4164y. Theory of Functions of a Complex Variable. 4½ points.

Analytic functions, the Cauchy theory of complex integration, Riemann surfaces, conformal mapping. Prerequisite: Course G4161x. PROFESSOR ELLIOTT.

Tu Th 2:40–3:55.

G4267x–G4268y. Algebra. 9 points.

Notions of group, ring, field, module, vector space, algebra, polynomial. The Galois theory and linear algebra. Prerequisite or parallel: Course G4010x.

PROFESSOR BASS. M W 2:40–3:55.

MUSIC

PROFESSOR: OTTO LUENING

ASSISTANT PROFESSORS: GENEVIEVE CHINN, ¹HUBERT DORIS (Chairman for Barnard)

ASSISTANT: PATRICIA CARPENTER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: ¹WILLIAM J. MITCHELL, DOUGLAS MOORE, *Emeritus*

ADJUNCT PROFESSOR: HENRY COWELL

ASSOCIATE PROFESSORS: JACK BEESON, HOWARD SHANET

ASSISTANT PROFESSORS: PETER FLANDERS, JOEL NEWMAN

INSTRUCTORS: GORDON CRAIN, CHRISTOPHER HATCH, ERNEST SANDERS, PETER WESTERGAARD

TEACHING STAFF IN APPLIED MUSIC:

SHIRLEE EMMONS. Voice

ALTA HILL. Piano

ROBERT GOLDSAND. Piano

RUBEN VARGA. Violin

PETER FLANDERS. University Chorus

ELIAS DANN. University Band

HOWARD SHANET. University Orchestra

M. SEARLE WRIGHT. Organ: Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1-2 and V1331y in the freshman year followed by Course V1332x in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Course 1-2) in literature, history, and in theory. Ordinarily Courses V3123x-V3124y, V1331x-V1332y, V3532x-V3533y, V3333y, V3334x, V3335x, and V3373x-V3374y are required. (Courses V3336y and V3239x-V3240y are required of students intending to specialize in composition.) Course V3125x is highly recommended as an elective. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recom-

¹Absent on leave, Spring Term.

mended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Announcement of the Graduate Faculties for those courses open to seniors and others with advanced training.

At the end of the junior year students majoring in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano and that they have participated for two years in the chorus, orchestra, choir, or concert band.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 6 points.

A study of the elements of musical structure designed to form intelligent listening habits. The spring term is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities. PROFESSORS DORIS and CHINN. Section I M W F 10. [2]. Section II M W F 11. [3]. One hour per week of supervised listening.

[V1004y. Literature of the Pianoforte. 3 points. PROFESSOR DORIS.]

Not given in 1963-64.]

V1005x. The Opera. 3 points.

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LUENING. M 1:10-3. W 2:10-3, listening hour F 2:10-3.

V1006y. The Symphony. 3 points.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1008y will satisfy the non-literature requirement in the humanities. MR. SANDERS. M W F 2:10, listening hour M 1:10-2.

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V1007x. Music of the World's People. 3 points.

An introduction to the so-called primitive folk and traditional music of the world's peoples. One hour of class time each week will consist of musical illustrations. Prerequisite: Course 1-2 or equivalent. **PROFESSOR COWELL.** Tu Th 2:10-4.

V1008y. Contemporary Music. 3 points.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1006y will satisfy the non-literature requirement in the humanities. **PROFESSOR COWELL.** Tu Th 2:10-4.

V1009x. The Heritage of Music. 2 points.

An inquiry into the various forms of musical expression, designed for the non-specializing student. Selected compositions from the Renaissance to the present day will be studied through an interpretation of their historical, functional and cultural significance. Prerequisite: Course 1-2 or equivalent. **PROFESSOR MOORE.** M W 11, listening hour W 12.

V1012y. Haydn and Mozart. 3 points.

A study of significant works of Haydn and Mozart. Prerequisite: Course V1331 or equivalent. **PROFESSOR LUENING.** M W F 3:10, listening hour F 4:10.

V1013x. Choral Music. 3 points.

A study of choral literature from the Middle Ages to the present. The Friday meeting will normally consist of a reading rehearsal of works of the type discussed in the week's lecture. Prerequisite: Course 1-2 or equivalent. **PROFESSOR FLANDERS.** M W 3:10, F 3:10-5.

[V1014y. Chamber Music. 3 points. **PROFESSOR LUENING.**

Not given in 1963-64.]

V3123x-V3124y. History of Music. 6 points.

A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course V1331x-V1332y or the equivalent. **PROFESSOR NEWMAN.** Tu Th 9-10:50.

V3125x. Nineteenth Century Music. 3 points.

A history of music in the Romantic Era. This course is designed as a continuation of Course V3123x-V3124y, but may be taken separately and at any time after completion of Course V1332y. **PROFESSOR DORIS.** Tu Th 2:10-4, listening hour Th 3:10.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music. 6 points.

Required seminar for senior majors to supplement and coordinate previous studies. Section I. **PROFESSORS DORIS and CHINN.** F 3:10-5. Section II. **PROFESSOR BEESON.** W 4:10-6.

[**G4008x. Twentieth Century Tendencies in Music.** 3 points. **PROFESSOR LUENING.**
Not given in 1963-64.]

THEORY

V1331x–V1332y. Harmony. 6 points.

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Written permission of the instructor required. **PROFESSOR CHINN** and **—**. **M W F 1:10.**

V1331y–V1332x. Harmony. 6 points.

The subject matter of Course V1331x–V1332y, starting in the spring term. **MR. HATCH.** **M W F 10.**

V3532x. Harmony at the Keyboard. 2 points.

A laboratory course featuring the subject matter of Course V1332y as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course V1331x. Preceding or parallel: Course V1332y. **PROFESSOR CHINN** and **—**. **M 9, W 3:10.**

V3333y. Advanced Harmony. 3 points.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course V1331x–V1332y or the equivalent. Course V1332y must have been passed with a grade of B– or better. Parallel, advised but not required: Course V3335x, V3336y. **MR. WESTERGAARD.** **M W F 10.**

V3533y. Harmony at the Keyboard. 2 points.

A laboratory course featuring the subject matter of Course V3333y as applied to the keyboard. Prerequisite: Course V1331x–V1332y. Preceding or parallel: Course V3333y. **PROFESSOR CHINN** and **—**. **M 9, W 3:10.**

V3334x. Analysis. 3 points.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course V3333y. Recommended, but not required: Course V3335x, V3336y. **PROFESSOR MITCHELL.** **M W F 10.**

V3335x, V3336y. Counterpoint. 6 points.

A study of the five species in two and three parts, strict style. During the spring term students analyze and compose polyphonic pieces in various styles. Prerequisite: Course V1331x–V1332y or the equivalent. **MR. CRAIN** and **MR. WESTERGAARD.** **M W F 12.**

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V3239x—V3240y. Composition. 4 points.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course V3333y or written permission of the instructor. This course may be repeated for credit. **PROFESSOR LUENING.** Tu 3:10—5.

V3373x—V3374y. Orchestration, Conducting, and Score Reading. 6 points.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V1331x—V1332y or the equivalent and written permission of the instructor. **PROFESSOR SHANET.** M W F 2:10.

[G4378y. Analytic Projects. 3 points. **MR. WESTERGAARD.**

Not given in 1963-64.]

APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count towards the degree. A maximum of 12 points may be so counted. No student may register for a course in vocal, organ, violin or piano instruction without consultation with the department as early in the registration period as possible. 601 Journalism. Hours to be arranged with the instructor.

81, 82. Vocal Instruction. 2 points. (See above note.)

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$150 each term; no refunds. **MISS EMMONS.**

83, 84. Organ Instruction. 2 points. (See above note.)

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the department, 601 Journalism, about registration and fees. **MR. WRIGHT.**

85, 86. Violin Instruction. 2 points. (See above note.)

Private lessons in the technique of the instrument and in interpretation, for both beginning and advanced students. Special fee, \$185 each term; no refunds. **MR. VARGA.**

91, 92. Piano Instruction. 2 points. (See above note.)

Private lessons in technique, sightreading and repertoire. Special fee, \$150 each term; no refunds. **MISS HILL.**

93, 94. Piano Instruction for Advanced Students. 2 points. (See above note.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$225 each term; no refunds. **MR. GOLDSAND.**

PERFORMANCE ACTIVITIES

Audition sign-up sheets and rehearsal schedules for all activities will be posted outside 601 Journalism at least a week before registration.

Columbia University Orchestra.

In addition to regular rehearsals for public concerts, there are reading and workshop sessions in which compositions will be studied without thought of public performance.

Membership is open to all members of the University community who can meet the musical qualifications. A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers. **PROFESSOR SHANET.**

Columbia University Chorus.

The purpose of the group is the study and presentation of serious choral works from all periods of musical literature. Two concerts are given in McMillin Theatre each year, as well as performances with various organizations. Informal reading sessions are also held. Membership is open to all members of the University family. **MR. FLANDERS.**

Chapel Choir: The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services. The Choir also gives several special Sunday evening musical services, choral performances at University Convocations, and appears at the Cathedral of St. John the Divine, etc. Applicants must have ability to sight-read music. All men and women students of the University are eligible. Regular members of the Choir who can participate on a full-time basis receive \$200 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel, during registration.

University Band.

The Concert Band begins rehearsals November 1 with membership open to all men and women in Columbia University. Two concerts are given in McMillin Theatre and five weekly afternoon concerts are presented on the campus in the spring. **MR. DANN.**

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult Professor Doris.

ORIENTAL STUDIES

ASSISTANT PROFESSOR: JOHN MESKILL (Departmental Representative)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD AND COLUMBIA STUDENTS:

PROFESSORS: WM. THEODORE DE BARY, HANS H. A. BIELENSTEIN

ASSISTANT PROFESSORS: AINSLIE T. EMBREE, MAAN Z. MADINA, HERSCHEL F. WEBB, ROYAL WEILER

Oriental Civilizations V3355x—V3356y. 8 points.

The more important factors in the life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. Fourth hour: Consultation and audio-visual illustrations. Prerequisite: History 1—2 or permission of instructor. PROFESSORS DE BARY, EMBREE, MESKILL and WEBB. Section I M W F 9. Section II M W F 11. Section III M W F 2:10. Fourth hour W 12 or W 3:10.

Oriental Humanities V3399x—V3400y. 8 points.

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The autumn term will deal with works from the Near East and India; the spring term with readings from China and Japan. Open to juniors and seniors who have completed six points of literature and three points of philosophy or religion, or written permission of instructor. PROFESSORS DE BARY, EMBREE, MADINA, MESKILL and WEILER.

Section I Tu 3:10—5. (Columbia students)

Section II W 2:10—4. (Columbia students)

Section III Th 7:40—9:30 p.m. (Columbia students)

Section IV Th 3:10—5. (Barnard and Columbia students)

Section V M 3:10—5. (Barnard students)

Section VI Tu 7:10—9 p.m. (General Studies students)

Oriental Studies W3001x—W3002y. Introduction to Islamic Civilization.

6 points.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. PROFESSOR MADINA. M W 4:10—5:25.

History G6525x—G6526y. History of Modern India. 6 points.

The development of modern India from the decline of the Mughal Empire to the present time. Special attention will be given to the impact of the West, the rise of nationalism, the social, political and economic problems of independent India and foreign relations. Permission of instructor required. PROFESSOR EMBREE. M W 10.

ORIENTAL STUDIES

Chinese History G6815x—G6816y. Introduction to the Civilization of China. 6 points.

An examination of Chinese history from ancient times to the beginning of the seventeenth century, with special attention given to characteristic political, economic and social developments. Permission of Professor Meskill required. PROFESSORS BIELENSTEIN and MESKILL. M W 11.

The following courses in Columbia University are open to Barnard students who have the consent of their advisers and PROFESSORS ULANOV and MESKILL, officers in charge of Area Studies. Descriptions may be found in the Announcements of Columbia College, the Graduate Faculties and the School of General Studies.

Arabic F1101x—F1102y. Elementary Arabic. 6 points.

PROFESSOR MADINA. M 6:40—7:55 p.m. Th 6:10—7:25 p.m.

Chinese C1101x—C1102y. Elementary Chinese. 8 points.

MR. HAN. M Tu W Th F 9.

Chinese C1201x—C1202y. Intermediate Chinese. 8 points.

MISS PAN. M Tu W Th F 9.

Chinese G4005x—G4006y. Advanced Chinese. 8 points.

MR. LO. M W F 4:10—5:25.

Chinese G4031x—G4032y. Chinese Literature. 6 points.

PROFESSOR HSIA. Tu Th 10.

Chinese G4033x. Modern Chinese Literature. 3 points.

PROFESSOR HSIA. Tu Th 11.

Chinese History G6825x—G6826y. History of Modern China. 6 points.

PROFESSOR WILBUR. W 2:10—4.

History—Japanese G6839x—G6840y. History of Modern Japan. 6 points.

PROFESSOR WEBB. Tu Th 1:10.

History—Japanese G6833x—G6834y. History of Japanese Civilization. 6 points.

PROFESSORS MORRIS and WEBB. Tu Th 11.

Indic G6401x. The Legacy of India. 3 points.

PROFESSOR WEILER. M 10—11:50.

Indic G6402y. Religions and Philosophies of India. 3 points.

PROFESSOR WEILER. M 10—11:50.

Japanese C1101x—C1102y. Elementary Japanese. 8 points.

PROFESSOR HAKEDA. M Tu W Th F 9.

Japanese C1201x—C1202y. Intermediate Japanese. 8 points.

PROFESSOR HAKEDA. M Tu W Th F 10.

Japanese G4005x—G4006y. Contemporary Japanese. 8 points.

PROFESSOR SHIRATO. M W F 11—12:15.

Japanese G4031x—G4032y. Japanese Literature. 6 points.

PROFESSOR KEENE. Tu Th 10.

Japanese G6027x. Introduction to Japanese Thought. 3 points.

PROFESSOR DE BARY. F 2:10—4.

Sanskrit G4101x—G4102y. Elementary Sanskrit. 6 points.

PROFESSOR WEILER. W 6:10—8 p.m.

PHILOSOPHY

PROFESSOR: JOSEPH GERARD BRENNAN (Chairman)

VISITING ASSOCIATE PROFESSOR: MARY MOTHERSILL

ASSOCIATE: STANLEY MOORE

INSTRUCTOR: CHANINAH MASCHLER

LECTURER: _____

OFFICER OF COLUMBIA UNIVERSITY OFFERING A COURSE OPEN TO BARNARD STUDENTS:

INSTRUCTOR: ARNOLD KOSLOW

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, the nature of reality, and the meaning of moral, aesthetic, and religious values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalent: 1; 5; 22; 61, 62, and in the senior year, the seminar, 65-66. A six-hour written major examination at the end of the senior year is required. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

1x (or 1y). Introduction to Philosophy. 3 points.

Interpretation and analysis of the central problems of philosophy: the basis of moral and aesthetic evaluation, the limits of human knowledge, and the nature of reality. PROFESSOR BRENNAN, DR. MOORE, MRS. MASCHLER and _____.

Section I M W F 9. [1]
Section II M W F 10. [2]

Section III M W F 11. [3]
Section IV Tu Th 10:35-11:50. [7]

4. Metaphysics. 3 points.

[4]

An examination of such central metaphysical problems as substance, cause, mind, matter, and time. Readings in Aristotle, Kant, Bradley, Whitehead, and others. Prerequisite: Course 1x or the equivalent. MRS. MASCHLER. M W F 1:10.

5. Logic. 3 points.

[4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1:10.

PHILOSOPHY

7. Theory of Knowledge. 3 points. [6]
A general account of the concepts of belief, knowledge, error, judgment. Readings from James, Wittgenstein, Ayer, Chisholm. Prerequisite: Course 1. **PROFESSOR MOTHERSILL.** Tu Th 9:10-10:25.

W3118y. Philosophy of Science. 3 points.
Readings from Carl Hempel, Pierre Duhem, Norman Campbell, Henri Poincaré, Philipp Frank, James Conant, and others, together with simple case studies from the history of science. Prerequisite: one term of mathematics or one of the natural sciences. **MR. KOSLOW.** M W F 10.

[9. Philosophy of Religion. 3 points.
Not offered in 1963-64.]

22. Ethics. 3 points. [6]
A survey of the main issues in contemporary moral philosophy. Readings from Moore, Lewis, Hare, Nowell-Smith, and Sartre. Prerequisite: Course 1. **PROFESSOR MOTHERSILL.** Tu Th 9:10-10:25.

25. Social Philosophy. 3 points. [7]
Examination of the social philosophies of Rousseau, Hegel, and Marx, centering upon the themes of individualism, rationalism, and alienation. Among the works studied will be Rousseau's *Discourses*; Hegel's *Philosophy of History* and *Phenomenology of Mind*; *The German Ideology* of Marx and Engels, and Engels' *Feuerbach*. Prerequisite: Course 1 or equivalent. **DR. MOORE.** Tu Th 10:35-11:50.

42. Philosophy of Art. 3 points. [7]
Comparative analysis of some classic statements on the nature and function of the arts. Discussion will center upon the relation of expression to form and upon the aesthetic role of representation. Primary authors studied will be Plato, Aristotle, Kant, and Hegel. Further reading from such authors as Rousseau, Diderot, Nietzsche, Tolstoy, and Freud. Prerequisite: Course 1. **DR. MOORE.** Tu Th 10:35-11:50.

43. Philosophical Implications of the Modern Novel. 3 points. [3]
The following themes will be developed: the relation of man to nature and to art; the role played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Hesse, Gide, Malraux, Greene, and other important European novelists of the twentieth century will be discussed. Not open to freshmen. **PROFESSOR BRENNAN.** M W F 11.

61, 62 History of Philosophy. 6 points. [2]
Autumn Term: Greek philosophy from Thales to Plotinus. Spring Term: Medieval and modern philosophy from Augustine to Hegel. Course 61 is a prerequisite for Course 62. **MRS. MASCHLER.** M W F 10.

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63, 64. Supplementary Readings in Philosophy. 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. DR. MOORE (or the instructor in the course to which the extra hours of reading are attached). Hour to be arranged for individual or group conferences.

65-66. Senior Seminar. 6 points. [0]

An intensive study of selected philosophical classics. Autumn Term: Plato. Spring Term: Hegel. Discussion, oral reports, and term papers. Required of all majors in the senior year. Open to other qualified seniors by permission of the instructor. DR. MOORE and MRS. MASCHLER. Tu 3:10-5 and conference hours to be arranged.

74. Schopenhauer, Nietzsche, and Bergson. 3 points. [5]

A study of the writings of these philosophers against the background of nineteenth century thought, with attention to their significance as precursors of Existentialism and to the effect of their writings on men of art, letters and politics. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR BRENNAN. M W 2:10 and conference hour.

[76. Twentieth Century Philosophy.] 3 points. DR. MOORE. [5]

Not offered in 1963-64.]

84. The Philosophy of Education. 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. Not open to freshmen. PROFESSOR BRENNAN. M W F 1:10.

PHYSICAL EDUCATION

PROFESSOR: MARGARET HOLLAND (Chairman)

ASSOCIATE PROFESSORS: MARION STRENG, ¹FERN YATES

ASSISTANT PROFESSOR: MARION R. PHILIPS

ASSOCIATE: EDITH G. MASON

INSTRUCTORS: SANDRA GENTER, GWEN HOCKMAN

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity, and recreation.

The Faculty requires physical education during the freshman, sophomore, and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in drama are urged to take courses in this area.

Medical examinations and posture analysis: Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is required by the Department of Physical Education upon entrance. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Freshman requirement: Three hours per week on different days. During the first term two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I MW 1:10.
Section II MW 2:10.
Section III MW 3:10.

Section IV Tu Th 9.
Section V Tu Th 11.

Sophomore and Junior requirement: Two hours per week on different days.

Registration: Held in the Gymnasium, Barnard Hall simultaneously with registration for academic courses. See College calendar for specific dates, page 4.

Exception: Registration for Fall Term indoor season and Spring Term outdoor season is held separately prior to the beginning of these two seasons of activities.

Program of activities: Two sessions each term: Fall-winter; winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

¹Absent on leave, Spring Term.

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Fall and Spring: archery; body conditioning; body mechanics; correctives; folk dancing; golf; modern dance; movement education; swimming—all levels, including synchronized swimming, Red Cross life saving; water-safety instructor's course; tennis; volley ball.

Winter each term: archery (indoor); badminton; basketball; bowling (special fee—\$6.50); body conditioning; fencing; folk-square dance; golf; modern dance; movement education; swimming—all levels, including synchronized swimming, Red Cross life-saving, water-safety instructor's course; tennis; volley ball.

Greek Games—athletics and/or dance are scheduled for the Spring Term indoor season only.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate, or advanced.

Prescribed costume: Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$22.

Recreational Leadership 1. 2 points.

[13]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games. PROFESSOR HOLLAND. M W 4:10 and a third hour for field work.

PHYSICS

PROFESSORS: HENRY A. BOORSE (Chairman and Dean of the Faculty), POLYKARP KUSCH

ASSISTANT PROFESSOR: DANIEL GREENBERG

ASSISTANTS: LILLIAN E. HARTMANN, SUSAN I. JACOBS

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: SAMUEL DEVONS, WILLIAM W. HAVENS, JR., LEON M. LEDERMAN, ROBERT NOVICK, ALLAN M. SACHS, JACK STEINBERGER, ROBERT VON NARDROFF, CHIEN SHIUNG WU.

ASSOCIATE PROFESSORS: LUCY J. HAYNER, MELVIN SCHWARTZ

ASSISTANT PROFESSORS: SVEN HARTMANN, CLAUDE KACSER, ROBERT L. MIEHER, JEROME ROSEN

ASSOCIATE: ALFRED J. REDFIELD

Students interested in taking any course in physics should consult the department in Room 223 Milbank. A student intending to major in physics should begin her courses in the freshman year, starting with Courses C1006y, C1007x, C1009x, C1008y, C1010y. In special cases students who have begun with Course 3-4 may continue as physics majors with a program to be worked out by the department. The first course for majors, C1006y, is given in the spring, to enable the student to have completed the first term of the calculus sequence before beginning to study physics. Other courses to be taken subsequently by physics majors are arranged individually with the department; these should include the five terms of the calculus sequence, or the equivalent, and one year of chemistry, though, in special cases, astronomy or a biological science may be substituted. The major examination consists of the Graduate Record Examination in physics and a one hour oral examination.

The best opportunities for women in the field of physics are open to those with graduate training. Financial assistance is readily available to qualified graduate students in the form of fellowships, and teaching and research assistantships, offered by graduate schools throughout the country. For students both with and without graduate training many opportunities exist in laboratories operated by the federal government, e.g. by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission and the Public Health Service; in laboratories operated by state and local governments; and in laboratories operated by many industrial firms and research institutes. In particular, medical physics constitutes an important and growing field of specialization, while teaching in the public and private school systems offers challenging positions for those interested in education and public service.

C1001x-C1002y. Elementary Physics. 8 points.

An introductory treatment of crucial experiments and theories of physics: particle mechanics; heat and kinetic theory of gases; electromagnetism; wave motion; atomic spectra and the Bohr theory of the hydrogen atom; nuclear reactions;

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elementary particles. A terminal course for liberal arts students who do not need a laboratory course as a basis for further scientific or professional training. Prerequisite: high school mathematics through intermediate algebra. This course does not fulfill the physics requirement for admission to medical school. Credit is not given for both Course C1001-C1002 and Courses C1006, C1007, C1008. PROFESSOR KUSCH. Tu Th 11-12:15. One hour of discussion to be arranged.

3-4. General Physics. 10 points.

[9]

Autumn Term: Mechanics, heat and optics. Spring Term: Electricity, magnetism and modern physics. Prerequisite: mathematics through trigonometry. PROFESSOR GREENBERG (Autumn Term) and PROFESSOR BOORSE (Spring Term), and assistants. Lec. Tu Th 2:10-3:25. Lab. (2 hours) Tu 4-6, Th 4-6, or F 1-3 and one recitation hour, to be arranged at the first meeting of the class.

C1006y. General Physics, I. Mechanics and Heat. 4 points.

Fundamental laws of mechanics: kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics C1105 or the equivalent. Parallel: Mathematics C1106 or the equivalent. PROFESSORS LEDERMAN and ROSEN. Lec. and recit. M W F 9. Problem sec: two consecutive hours to be arranged.

C1007x. General Physics, II. Electricity and Magnetism. 3 points.

Wave motion and sound; electrostatics; direct currents; electromagnetism; alternating currents. Prerequisite: Course C1006. Parallel: Course C1009 and Mathematics C1205 or their equivalents. PROFESSORS KACSER and SCHWARTZ. Lec. and recit. M W F 9.

C1008y. General Physics, III. Light and Atomic Physics. 3 points.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course C1007. Parallel: Course C1010. PROFESSORS STEINBERGER and SCHWARTZ. Lec. Tu Th 10. Recit: one hour to be arranged after the first meeting.

C1009x-C1010y. Physical laboratory. 3 points.

Selected quantitative experiments in mechanics, heat, electricity, optics, and atomic and nuclear physics. Prerequisite: Course C1006. Parallel: Course C1007-C1008. PROFESSOR SACHS. Three consecutive hours of laboratory to be arranged after the first lecture in Courses C1007 and C1008.

[20. The Concepts of Modern Physics. 3 points. PROFESSOR GREENBERG.]

Open to juniors and seniors with a background of intermediate physics.

Not given in 1963-64.]

61-62. Colloquium in Current Physics. 2 points.

[0]

A series of lectures and discussions on current research in physics. Required for all junior and senior majors. Periodic written reports will be required. PROFESSOR KUSCH.

PHYSICS

FESSORS BOORSE and GREENBERG. One two-hour meeting every other week, hours to be arranged.

W3072y. Seminar in Current Research Problems. 2 points.

A detailed study of a selected field of active research in physics. Informal discussion of the motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems in this particular field. Prerequisite: Courses G4004 and G4008 or the equivalent, and the permission of the departmental representative. PROFESSOR HARTMANN and DR. REDFIELD.

W 4:10-5:25.

W3081x-W3082y. Intermediate Laboratory Work. 2 to 8 points.

Experiments are available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. PROFESSOR HAYNER and others. One four-hour laboratory period weekly for each two points. Hours to be arranged by the instructor. Laboratory sections: M Tu W F 1:10-5; Th 6:30-10:30 p.m.; S 10-1:50.

GRADUATE COURSES

For further information, see the Announcement of the Graduate Faculties.

G4003x-G4004y. Mechanics. 6 points.

An introduction to analytical mechanics. Statics, kinematics, and kinetics of the particle and rigid body. Prerequisite: general physics and integral calculus. PROFESSORS VON NARDROFF (G4003x) and SACHS (G4004y). M W F 10.

G4007x-G4008y. Theory of Electricity and Magnetism. 6 points.

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations. Considerable emphasis is placed on alternating-current circuits, transmission lines, and the motion of charged particles in electric and magnetic fields. Prerequisite: an intermediate course in electricity and magnetism (Course C1007 is equivalent) and differential and integral calculus. PROFESSOR DEVONS. Lec. Tu Th 8:35-9:50 a.m.

G4009x. Light 3 points.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. PROFESSOR MIEHER. M W 4:10-5:25.

G4013x. Thermodynamics. 3 points.

General principles of thermodynamics; the two fundamental laws; entropy; free energy; thermodynamic potentials, and applications. PROFESSOR GREENBERG. Tu Th 4:10-5:25.

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G4015x. Atomic Physics. 3 points.

Spectroscopic and other atomic phenomena which form the experimental basis of modern quantum theory. The important experiments and their historic role in the development of atomic theory. Prerequisite: Courses C1006, C1007, and C1008 or their equivalents, and two additional terms of course work in intermediate or advanced physics. **PROFESSOR NOVICK.** **M W F 9.**

G4016y. Elementary Quantum Mechanics. 3 points.

The Schrödinger Equation and its simpler applications to atomic structure. Potential well and barrier problems. Quantum theory of angular momentum and elementary perturbation theory. Physical interpretation of wave mechanics. Prerequisite: Course G4015 or the equivalent. **PROFESSOR NOVICK.** **M W F 9.**

G4040x (or G4040y). Nuclear Physics. 3 points.

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: Courses C1006, C1007, C1008, or their equivalents, and two additional terms of course work in intermediate or advanced physics. **PROFESSORS HAVENS (G4040x) and WU (G4040y).** **Tu Th 11-12:15.**

PSYCHOLOGY

PROFESSOR: RICHARD P. YOUTZ (Chairman)

ASSOCIATE PROFESSOR: ¹ TRACY S. KENDLER

ASSISTANT PROFESSORS: MICHAEL G. KENNEDY, BARBARA S. SCHMITTER, THOMAS J. TIGHE (in charge of Laboratory)

LECTURER: PETER F. MACNEILAGE

ASSISTANTS: CAROLE A. KENDIG, BARBARA MATES, JAMES G. MCCELLIGOTT, JANET M. READ, ROBERT J. ROGERS, KATHLEEN R. SPEETH

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major. A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology. Courses 1; 5; 8; 9; 12; one, or both, of 57 and G4008y; and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points) or Anthropology 1, 2; a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

(b) Students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 15; 27, and at least two of the following: Courses 18; 21; 25; 38.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1-2; 17, 18; and 19.

(d) Students who wish to take post-graduate work in experimental psychology should add the following to the requirements for the general major: Courses 57 and G4008y. In other fields work should include: full-year laboratory courses in two of the following: zoology (or biology), physics, or chemistry; mathematics through Course 15.

The major examination. This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hours);

¹ Absent on leave, 1963-64.

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and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

Biological Science Requirement: The degree requirement in biological science may be satisfied by taking any two of the following courses: 5; 8; 12; 27; 30.

1x (or 1y). Introduction to Psychology. 3 points.

[11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS KENNEDY, TIGHE, and YOUTZ, DR. MACNEILAGE and

Section I M W F 10. Section II M W F 11. Section III Tu Th 10:35–11:50.

5. Psychology of Learning. 4 points.

[8]

The basic methods, results, and concepts in the experimental analysis of learning. The laboratory work consists of a series of individual experiments, several group experiments, and the preparation of systematic reports of results. Prerequisite: Course 1 or the equivalent. PROFESSOR TIGHE and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10–5, W 1:10–4.

5a. Psychology of Learning. 2 points.

[8]

Lectures identical with those of Course 5. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR TIGHE. Tu Th 11.

8. Perception. 4 points.

[8]

An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4; Tu 2:10–5.

8a. Perception. 2 points.

[8]

Lectures identical with those of Course 8. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY. Tu Th 11.

9. Statistical Design. 4 points.

[2]

An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY and assistant. Lec. M W F 10. Lab. (2 hours) M 1:10–3, Tu 2:10–4.

PSYCHOLOGY

12. Psychological Measurement. 4 points. [2]

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisites: Course 1 and one course in statistics. PROFESSOR SCHMITTER and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.

12a. Psychological Measurement. 2 points. [2]

Lectures identical with those of Course 12. No laboratory work. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER. M W 10.

15. Theories of Learning. 3 points. [6]

A comparative study of the major scientific accounts of the learning process. The course stresses exposition and evaluation of each theory in terms of structure, scope, research and potential applications, and in relation to other forms of psychological theory. Prerequisite: Course 5 or 5a or the equivalent. PROFESSOR TIGHE. Tu Th 9:10-10:25.

18. Physiological Psychology. 4 points. [1]

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 5 or 8 or the equivalent. PROFESSOR TIGHE and assistant. Lec. M W 9. Lab. (1 hour lecture, 2 hours projects) W 10-12:50; Th 2:10-5.

18a. Physiological Psychology. 2 points. [1]

Lectures identical with those of Course 18. No laboratory work. Prerequisite: Course 5 or 8 or the equivalent. PROFESSOR TIGHE. M W 9.

21. Abnormal Psychology. 3 points. [4]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1. PROFESSOR YOUTZ. M W 1:10 and consultation in connection with readings for the third point.

24. Applications of Psychological Techniques. 4 points. [4]

Uses and limitations of tests and other psychological techniques in the fields of education, vocational guidance and selection, industrial efficiency, and advertising and selling. Includes a survey of programmed learning techniques and meth-

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ods of constructing self-teaching programs. Laboratory projects will be concerned with sample applications. Prerequisite: Course 1 or the equivalent. _____ and assistant. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.

24a. Applications of Psychological Tests. 2 points. [4]

Lectures identical with those of Course 24. No laboratory work. Prerequisite: Course 1 or the equivalent. _____ M W 1:10.

25. Psychology of Personality. 3 or 4 points. [2]

Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Consideration is given to practical aspects of personal adjustment as it is influenced by changing social pressures. Prerequisite: Course 1 or the equivalent. PROFESSOR SCHMITTER. M W F 10, and conferences in connection with a paper for the fourth point. Fourth point requires written permission of the instructor.

27. Developmental Psychology. 4 points. [3]

Comparative and experimental analysis of transitions from simple to complex behavior characteristic of individual and evolutionary development. Major emphasis on human ontogeny from conception to maturity. The laboratory includes experiments and demonstrations of (a) genetic and environmental factors in behavior development of animals and (b) comparative studies of sensori-motor, intellectual, linguistic and social development of children. Prerequisite: Course 1 or the equivalent. _____ and assistant. Lec. M F 11. Lab. (1 hour lecture, 2 hours projects) M 1:10-4, Th 2:10-5.

27a. Developmental Psychology. 2 points. [3]

Lectures identical with those of Course 27. No laboratory work. Prerequisite: Course 1 or the equivalent. _____ M F 11.

[30. Psychology of Thinking.] 4 points. PROFESSOR KENDLER.

Prerequisite: Course 5 or 5a. Lec. (2 hours). Lab. (1 hour lecture, 2 hours projects).

Not given in 1963-64.]

[30a. Psychology of Thinking.] 2 points. PROFESSOR KENDLER.

Lec. (2 hours). No laboratory work. Prerequisite: Course 5 or 5a.

Not given in 1963-64.]

38. Social Psychology. 3 or 4 points. [6]

An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized.

PSYCHOLOGY

Prerequisite: Course 1. May be counted towards the requirement in contemporary society. **PROFESSOR KENNEDY.** Tu Th 9:10-10:25, and conference hour in connection with a project or paper for the fourth point.

45x (or 45y). **Field Work.** 1 or 2 points.

A field work project may be undertaken in connection with any course except Course 1. The project should be planned in conjunction with the course instructor; his written permission is required. Supervised by **DR. BECKER.** Hours to be arranged.

48x (or 48y). **Individual Projects.** 1, 2, or 3 points. [0]

Research projects will be planned in consultation with members of the department. Open to majors who have Courses 5 and 8, on written permission of the member of the department who supervises the project. **PROFESSORS KENNEDY, SCHMITTER, TIGHE and YOUTZ.** Hours to be arranged.

•57. **Systems of Psychology.** 3 points. [8]

A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Courses 5 and 8 or the equivalent. **PROFESSOR YOUTZ.** Tu Th 11.

G4008y. **Case Histories in Experimental Design.** 3 points. [8]

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Courses 5 and 8 or the equivalent. **PROFESSOR YOUTZ.** Tu Th 11.

RELIGION

ASSOCIATE PROFESSORS: URSULA M. NIEBUHR, HAROLD STAHLER (Chairman)

LECTURER: ROBERT F. OLSON

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

ADJUNCT PROFESSORS: THEODOR H. GASTER, JOHN MEYENDORFF

ASSOCIATE PROFESSORS: JOSEPH L. BLAU, JACOB TAUBES

ASSISTANT PROFESSORS: ANTON ZIGMUND-CERBU, IVAN VALLIER

INSTRUCTOR: SUSAN SONTAG

LECTURERS: SUSAN TAUBES, DAVID WEISS

PRECEPTOR: HENRY BOOKOUT

The purpose of the program is to introduce the field of religion, to present the documents, history and thought of the great religious traditions of East and West, and to consider their influence upon contemporary questions.

The program of study for a major in religion is to be planned in consultation with members of the department preferably by the end of the sophomore year. The student chooses one of two sequences of study: A. The Judaeo-Christian tradition and the Theory of Religion. B. Comparative Religion and the Theory of Religion.

Courses: Normally 30 points including V1101-V1102 and six points of seminar work. Students specializing in Sequence A should include a minimum of three points in Comparative Religion and three points in the Theory of Religion. Students specializing in Sequence B should include a minimum of three points in the Judaeo-Christian tradition and three points in the Theory of Religion. Students are expected to take 12 points of course work in two related departments. All course selections must be made in conjunction with the major adviser. Students considering graduate work are strongly advised to develop a reading knowledge of such languages as Hebrew, Greek, Latin, French and German.

The comprehensive examination consists of: Two three-hour papers; the first, historical, designed to test material in the elected sequence; the second, theoretical and interpretative of the whole field.

A senior essay is not obligatory; however, students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students should submit a proposed topic for their research by April 1 of their junior year.

V1101x, V1102y (or V1102x, V1101y). Introduction to the Study of Religion.
6 points.

The phenomenology of religious experience and the historical forms of religious life. A study of the presuppositions, data and documents of the religions of East and West. Autumn Term: The ancient religions of the Near East and Greece; major themes in the Judaeo-Christian heritage. Spring Term: Primitive structures of religion; recurrent themes in religions of the East

MEMBERS OF THE DEPARTMENT.

Section I M W 2:10-3:25.
 Section II Tu Th 9:10-10:25. (Primarily for Barnard Students)
 Section III M Tu 5:10-6:25.
 Section IV (V1102x, V1101y) M W 2:10-3:25. For those wishing to begin the course with the study of Eastern religions.

THE JUDAEO-CHRISTIAN TRADITION

V3201x. Introduction to the Old Testament. 3 points.

Hebrew religion. Its beginnings and nature. Ancient myths, stories and records. Moses: Israel as the covenant people. The prophets. The exile and development of Judaism. PROFESSOR NIEBUHR and MISS SONTAG.

Section I Tu Th 10:35-11:50. (Primarily for Barnard students)
 Section II M W 5:10-6:25.

V3202y. Introduction to the New Testament. 3 points.

The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The Book of Acts. The spread of Christianity. PROFESSOR NIEBUHR and DR. KRUMM.

Section I Tu Th 10:35-11:50. (Primarily for Barnard students)
 Section II Tu Th 4:10-5:25.

W3214y. Introduction to Talmudic Literature. 3 points.

Documents in the history of post-Biblical literature. Selections from Mishna, Mechilta, Midrash, and Gemara. Prerequisite: Course V1101, V3201, or the equivalent. DR. WEISS. M W 1:10-2:25.

[13. Early Christianity and the Classical Heritage. 3 points. PROFESSOR NIEBUHR.

[Not given in 1963-64.]

12. The Ethical Principles of Biblical Thought. 3 points. [9]

Analysis of selected documents, with consideration of their historical legacy. The social teachings of the Hebrew prophets; apocalyptic and wisdom literature, the Dead Sea Scrolls, the ethic of the early Church. Prerequisite: Course V1101, V3201, V3202, or the equivalent. PROFESSOR NIEBUHR. Tu Th 2:10-3:25.

15, 16. History of Religious Thought in the West. 6 points. [3]

A historical examination of the contributions of the Greek, Hebraic and Islamic mentalities to Western religion. Emphasis is placed upon the response of significant personalities and movements to abiding themes and controversies within the Western Judaeo-Christian tradition. PROFESSOR STAHLER. M W F 11.

[W3242y. Eastern Christian Thought. 3 points. PROFESSOR MEYENDORFF.

[Not given in 1963-64.]

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W3235x. Catholic Thought After Trent. 3 points.

Catholic thought from Newman to the present. Recent and current developments in the arts and the liturgy, and in philosophy, psychology, and theology.

PROFESSOR ULANOV. Th 4:10-7.

COMPARATIVE RELIGION

G4301x. Comparative Mythology. 3 points.

Myth and its relation to ritual and legend in various cultures. The social and psychological significance of some recurrent themes in myth and myth-making. Contemporary theories of myth. Students may use materials of the Bush Collection of Religion and Culture to prepare papers or to pursue individual research under tutorial guidance. Prerequisite: Course V1101, or written permission of the departmental representative. DR. SUSAN TAUBES. M 4:10-6.

G4311x. Ancient Religion. 3 points.

An introduction to the ideas and practices of primitive religions of ancient Egypt, Mesopotamia, Canaan and other Mediterranean cultures. Prerequisites: V1101x or permission of the department. PROFESSOR GASTER. Th 4:10-6.

W3302y. History and Sociology of Religions in Southeast Asia. 3 points.

The developing role of religion in the societies of Burma, Thailand, Cambodia, Laos, Vietnam and Indonesia with an analysis of the forms of their religious thought and life. Prerequisite: Course V1102x or the equivalent. PROFESSOR ZIGMUND-CERBU. Tu Th 9-10:15.

THEORY OF RELIGION

25. Religion in Contemporary Society. 3 points.

[1]

An introduction to the theological and intellectual background of religion in contemporary America. Occasional guest lecturers will discuss relevant legal, sociological and theological questions. Term paper optional. May be counted towards the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHLER. M W F 9.

26. Religion in Contemporary Culture. 3 points.

[1]

Religion, its meaning and expression in contemporary culture. The impact of modern social and psychological theories on religious ideas of human nature. Problems of alienation, adaptation and identity. Visiting lecturers present viewpoints of contemporary literature and of the social and psychological disciplines. Term paper or short reports. May be counted towards the contemporary society requirement. Open to all except freshmen. PROFESSOR NIEBUHR. M W F 9.

W3430y. Religion and the Arts. 2 points.

Problems in the relation of religion to the arts in selected areas. Modes of symbolization, including analysis of ritual, cult drama, types of holy images, and

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architectural symbolism. Prerequisite: junior standing, or the instructor's permission. DR. SUSAN TAUBES. W 6:10-8 p.m.

[W3440y. Sociology of Religion. 3 points. MISS SONTAG.

Not given in 1963-64.]

W3442y. Theories of Religious Behavior. 3 points.

Psychological aspects of religious behavior, particularly the notions of faith, conversion, enthusiasm, and mystical experience; the meaning and adequacy of modern psychological theories to these phenomena. Texts include documents from the Christian and other traditions; and from William James, Freud, Jung, and more recent psychologists. MISS SONTAG. Tu 2:10-4, W 3:30-4:30.

G4401x. Role of Language in Religious Existentialism. 3 points.

The significance of the spoken word, encounter, and time in the writings of J. G. Hamann, Martin Buber, Ferdinand Ebner, Franz Rosenzweig, and Eugen Rosenstock-Huessy. Prerequisite: permission of the instructor. PROFESSOR STAHLER. W 3:10-5.

SEMINARS AND READING COURSES

41. Seminar: The Literature of Introspection in Western Religion.

3 points. [0]

An analysis of selected documents including Book of Job, Ecclesiastes, the writings of Paul, Augustine, Bernard, John of the Cross, Luther, Pascal, and Kierkegaard. Open to juniors and seniors with permission of instructor. PROFESSOR NIEBUHR. Tu 4:10-6.

W3493x. Seminar: The Bhagavad-Gita and Its Classical Interpreters, Shankara and Ramanuja. 3 points.

The idealistic interpretation of the pure "non-dualistic" philosophy compared with the religious position of the "specific" monism. Open to juniors and seniors with permission of instructor. PROFESSOR ZIGMUND-CERBU. Tu 2:10-4.

G4453y. Seminar: Hegel and Heidegger. 3 points.

A detailed examination of selected writings of Hegel and Heidegger, with an analysis of their contrasting historicist perspectives on major themes of the classic philosophical tradition. Open to juniors and seniors with permission of instructor. PROFESSOR TAUBES. Tu 4:10-6.

W3502y. Seminar: Problems in Methodology. 3 points.

An examination of the theological methodology of Anselm, Barth, and Tillich, contrasted with the methodological presuppositions of Comte and Feuerbach. Open to juniors and seniors with permission of instructor. PROFESSOR STAHLER. Tu 3:10-5.

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35, 36. Guided Reading and Research. 6 points.

[0]

A program of study designed to give outstanding majors in religion an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser.
PROFESSORS NIEBUHR and STAHLER.

RELATED COURSES IN OTHER DEPARTMENTS

History 57-58. History of Religion in America.

Philosophy 25. Social Philosophy.

Oriental Civilizations V3355x—V3356y.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. Descriptions may be found in the Announcement of the Graduate Faculties.

RUSSIAN

INSTRUCTOR: LYDIA W. KESICH (Departmental Representative)

LECTURERS: NATHALIE S. NABOKOFF, ZOYA TRIFUNOVICH

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSOR: RUFUS W. MATHEWSON, JR.

ASSISTANT PROFESSORS: ROBERT L. BELKNAP, RICHARD A. GREGG, ROBERT MAGUIRE

LECTURER: ROSE RASKIN

The study of Russian gives the student a key to a rich cultural and literary tradition and introduces her to one of the important critical languages of our time. In many professions and specializations there is need for people with the ability to use the language.

A major in Russian is open to Barnard students in cooperation with Columbia College. The program is designed to provide a working knowledge of the language and enable the student to read the great Russian writers with facility and critical appreciation. Majors are expected to take 28 points of work above the elementary level. Normally these will include Courses 3-4, C3335x-C3336y, and C3595x-C3596y, and at least six points of literature courses in Russian above the third-year level. C1225x-C1226y is also normally required for the major, although it may not be included within the required 28 points.

Allied subjects: History 37, 38 and Government 15 are especially recommended to majors. Students majoring in Russian should also select courses in other literatures and the humanities.

The major examination consists of a three-hour written section and an oral section. A senior essay is required as part of the senior seminar.

Foreign language requirement for the degree: All students who intend to satisfy the foreign language requirement in Russian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Courses 5, 6 or C3333y and C3334x or C3335x-C3336y with a minimum grade of C-, or Course 5 or Course C3333y or Course C3335x with a minimum grade of B+.

LANGUAGE COURSES

1-2. Elementary Full-Year Course. 8 points. [15]

The essentials of the spoken and written language, with classroom instruction devoted mainly to the study of grammar and to reading; oral practice sessions held in small groups. Work in the language laboratory is part of the course. **MRS. KESICH.** Language analysis: Section I M W F 10. Section II M W F 12. Oral practice: M W 1:10 or M W 3:10 or Tu Th 11. Other hours to be arranged.

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3-4. Intermediate Course. 8 points.

[5]

A review and continued study of grammar; composition, reading of moderately difficult texts, and oral practice groups. Prerequisite: Course 2 or the equivalent. **MRS. TRIFUNOVICH.** Language analysis: M W F 2:10. **MRS. NABOKOFF.** Oral practice: W F 9 or W F 11 or W F 1:10. Other hours to be arranged.

9, 10. Advanced Conversation. 4 points.

[0]

Class discussion and oral reports in Russian, based on selected readings. Prerequisite: Open to students enrolled in third-year literature courses at Barnard or Columbia, or with permission of the instructor. **MRS. TRIFUNOVICH.** Section I W F 1:10. Section II M F 10.

C3335x-C3336y. Advanced Language Course. 8 points.

For students who want more skill in writing, speaking, and reading Russian. Recommended for students who plan to use Russian in their studies. Prerequisite: Course 4 or equivalent. **MISS RASKIN.** M W F 2:10. Oral practice sessions in small groups, to be arranged.

LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

§5, 6. Readings in Russian Literature. 6 points.

[7]

Readings of nineteenth and twentieth century literary texts. Compositions, class discussion, oral reports in Russian. Prerequisite: Course 3-4 or an appropriate score on the placement examination. **MRS. KESICH.** Tu Th 10:35-11:50.

C1225x-C1226y. Russian Literature from the Beginning through the Revolution. 6 points.

A survey course in literature with emphasis on the prose masterpieces of the nineteenth century. Historical background will be discussed. The second term may be taken without the first with the instructor's permission. A knowledge of Russian is not required. Autumn Term: PROFESSOR MATHEWSON. Spring Term: PROFESSOR BELKNAP. M W F 11.

C1227y. Tolstoy and Dostoevsky. 3 points.

Analysis of the major works of the two writers. A knowledge of Russian is not required. PROFESSOR BELKNAP. M W F 10.

[C1229x. Russian Drama and Theatre. 3 points. PROFESSOR BELKNAP.

Not given in 1963-64.]

§C3333y. Readings in Russian Prose. 3 points.

An introduction to critical reading in Russian. Excerpts in the original from novels and selections of short works in prose discussed and analyzed with em-

phasis on language. Problems of translation. Occasional short translations. Prerequisite: a grade of B- or better in Course 4, or the equivalent of five terms of Russian. PROFESSOR GREGG. M W F 12.

§C3334x. Pushkin. 3 points.

A close reading of selected works in the original, with lectures on Pushkin's life, times, and literary achievement. Prerequisite: a grade of B- or better in Course 4, or the equivalent of five terms of Russian. PROFESSOR GREGG. M W F 12.

[§C3471x. A Russian Novelist.] 3 points. PROFESSOR MAGUIRE.

Not given in 1963-64.]

§F3876x. Readings in Russian Poetry. 3 points.

Extensive readings in Russian poetry from the second half of the eighteenth century to the present. Commentary and class discussion. Prerequisite: three years of college Russian or the instructor's permission. MISS RASKIN. M F 4:10-5:25.

C3595x-C3596y. Seminar. 8 points.

A program of readings and exercises in the various critical traditions from the eighteenth century to the present, culminating in a critical paper. Prerequisite: senior standing and permission of the instructor. PROFESSOR MAGUIRE.

W 3:10-5.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the representative and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

G4103x. History of the Russian Language: Introductory Course. 3 points.

—————. Tu Th 2:10.

§G4007x. Russian Literary Criticism in the Nineteenth Century. 3 points.

(in Russian) PROFESSOR YERSHOV. Tu Th 6:10.

§G4032x, G4033y. Russian Literature from 1880 to the Present. 6 points.

PROFESSOR MAGUIRE. Tu Th 5:10.

§G4461y. Chekhov and the Short Story. 3 points.

Reading and analysis of a selection of Chekhov's short stories. Readings in Russian. Prerequisite: Courses 5, 6 or C3333y and C3334x, and the instructor's permission. PROFESSOR MATHEWSON. Tu Th 11-12:15.

SOCIOLOGY

PROFESSORS: ¹BERNARD BARBER (Chairman), MIRRA KOMAROVSKY

ASSOCIATE PROFESSOR: GLADYS MEYER

ASSISTANT PROFESSOR: RENÉE CLAIRE FOX

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1-2 and other sociology courses to be selected in consultation with the major adviser. Courses 31; 33; 34; 39; 40; 41; 42; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

Pre-Social Work Program: The program is designed for students wishing to enter social work related jobs immediately after graduation from college, or who wish to enrich their preparation for professional graduate training in social work or social work research.

Juniors in the program should elect Course 21-22 in their junior year and Course 81-82 in their senior year. In addition Government 10 and Psychology 27 are strongly recommended.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1-2. Introduction to Sociology. 6 points.

[18]

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups; ecology of modern communities. Spring Term: Social change and social problems. Population, race and group conflict, social disorganization and crime. Problems of social reorganization.

¹Absent on leave, Spring Term.

SOCIOLOGY

Fulfils the requirement in contemporary society. PROFESSORS BARBER, KOMAROVSKY, MEYER, and Fox.

- Section I M W F 10. (Not open to freshmen)
- Section II M W F 11. (Open to freshmen)
- Section III M W F 2:10. (Open to freshmen)
- Section IV Tu Th 9:10-10:25. (Not open to freshmen)

21-22. Introduction to Social Work. 6 points. [2]

The social and economic conditions that lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in the philosophy of social work. Comparative welfare systems.

Field work is required for one half day a week. Placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Students expecting to take the pre-social work sequence should elect this course in the junior year. Prerequisite: six points of social science other than history. PROFESSOR MEYER. M W F 10. Hours for field work to be arranged.

31. The Family. 3 points. [3]

A study of the American family using comparative materials from other societies. The family cycle from courtship through parenthood and old age with special emphasis upon the marriage relationship. Ethnic and class differences in family life. Recent developments in family theory and research in sociology and related disciplines. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M W F 11.

33. The Community: Rural-Urban Sociology. 3 points. [4]

Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1:10.

34. Ethnic and Minority and Intergroup Relations. 3 points. [7]

The composition and distribution of populations; major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1-2. Tu Th 10:35-11:50.

38. Special Readings. 2 or 3 points. [0]

Students will read selected classics and other books and monographs exemplifying important developments in contemporary sociology. Brief written assignments. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M W 11.

39. Comparative Social Institutions. 3 points. [7]

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval

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Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1-2. PROFESSOR BARBER. Tu Th 10:35-11:50.

[40. Social Stratification. 3 points. PROFESSOR BARBER.

Not given in 1963-64.]

41, 42. History of Sociological Theory. 6 points.

[9]

The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Sorokin, Parsons, Merton, Weber, and other contemporary American sociologists. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. Tu 2:10-4.

43, 44. Methods of Sociological Research. 6 points.

[10]

Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1-2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR FOX. M W F 3:10.

46. Social Structure and Personality. 3 points.

[5]

Critical examination of the theory and research studies dealing with the relations between social structure and personality. Prerequisite: Course 1-2. PROFESSOR FOX. M W F 2:10.

81-82. Advanced Field Work. 4 to 6 points.

[0]

Students in the pre-social sequence should elect Course 81-82 for six points. This involves placement in an agency one full day (or two half days) a week throughout the academic year and participation in the social work colloquium. Other field work may be elected in connection with other courses in sociology or related departments. Plans for field work must be approved by the instructor of the course to which the field work is attached.

Students not participating in the pre-social work sequence should elect Course 81-82 for four points and expect to work in the field one day or two half days a week throughout the year. PROFESSOR MEYER. Field hours to be arranged. Colloquium W 4:10-6.

[97. Senior Seminar. 3 points.

Not given in 1963-64.]

98. Individual Projects. 3 points.

[0]

Individual study under supervision of members of the department. Open to senior majors with the permission of the instructor. PROFESSORS BARBER, KOMAROVSKY, MEYER, and FOX. Hours to be arranged.

COLUMBIA COURSES

Certain undergraduate and graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. A description of these courses will be found in the Announcements of Columbia College and the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

C3533x—C3534y. Changing Institutions in New Nations.

PROFESSOR WALLERSTEIN. Th 4:10—6.

G4061x. Political Sociology.

PROFESSOR LINZ. Tu 10—11:50.

G4093x. Public Opinion Research.

PROFESSOR HYMAN. W 2:10—4.

SPANISH

PROFESSORS: EUGENIO FLORIT, AMELIA A. DE DEL RÍO, *Emeritus*

ASSOCIATE PROFESSORS: MARGARITA U. DA CAL (Chairman), ¹LAURA R. DE GARCÍA-LORCA

INSTRUCTORS: VICTOR FUENTES, ELECTA ARENAL DE RODRÍGUEZ

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish-American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theatre, or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 15a-16a; 19; 21-22; and 23-24; and either 17-18; 25-26; 27-28, or a more advanced course to be chosen in consultation with the department. Courses 1-2; 3, 4; 3a, 4a, and 9, 10 do not count towards the major requirement.

Other fields. The following courses are recommended: Anthropology 4; 9; Classical Civilization 31; Art History 75, 76; French 7-8; German 55, 56; Italian W3333-3334; Philosophy 1; 43; 61, 62. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C-, or Course 5 with a minimum grade of B+.

LANGUAGE COURSES

1-2. Elementary Full-Year Course. 8 points.

[17]

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. MR. FUENTES and MRS. RODRÍGUEZ. Section I M Tu W Th F 9. Section II M Tu W Th F 2:10.

3, 4. Intermediate Course. 6 points.

[17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish-American literatures.

¹ Absent on leave, 1963-64.

SPANISH

Monthly book reports on outside reading. MR. FUENTES and MRS. RODRÍGUEZ. Section I M W F 10. Section II M W F 1:10.

3a. Intermediate Course in Grammar and Composition. 3 points. [3]

The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. PROFESSOR DA CAL. M W F 11.

4a. Advanced Course in Grammar and Composition. 3 points. [3]

Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. MR. FUENTES. M W F 11.

5, 6. Spanish through Literary Analysis. 6 points. [17]

Discussion in Spanish of texts, oral and written composition, reports on outside reading with emphasis on twentieth century writers, occasional translation into English. Prerequisite: Course 3, 4, or three years of high school Spanish. MR. FUENTES and MRS. RODRÍGUEZ. Section I M W F 10. Section II M W F 1:10.

9, 10. Intermediate Spanish Conversation. 2 points. [0]

Open only to students taking another Spanish course, either term. MRS. RODRÍGUEZ. Tu 2:10.

11, 12. Advanced Spanish Conversation. 2 points. [0]

Discussion and reports on Spanish subjects. Prerequisite: Course 9, 10. Open only to students taking another Spanish course, either term. MRS. RODRÍGUEZ. Tu 3:10.

31, 32. Oral Spanish, Advanced Course. 4 points. [0]

Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Courses 3, 4 or 3a, 4a, or permission of instructor. Two class hours and one conference. Autumn Term: PROFESSOR FLORIT and MR. FUENTES. Spring Term: PROFESSOR DA CAL. Tu Th 3:10.

LITERATURE COURSES¹

Courses marked thus § will count towards the college requirement in literature.

§13, 14. The Culture of the Hispanic Countries. 6 points. [6]

Autumn Term: The history and culture of Spain. Spring Term: The development of Spanish-American culture. Lectures and monthly book reports. Pre-

¹ All courses are conducted entirely in Spanish.

BARNARD COLLEGE

requisite: Course 3, 4 or 5, 6. Autumn Term: MR. FUENTES. Spring Term: PROFESSOR FLORIT. Tu Th 9:10-10:25.

§15-16. Introduction to Spanish Literature. 6 points.

[17]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Courses 3 and 4 or 3a and 4a, or 5 and 6. PROFESSORS DEL RÍO and DA CAL. Section I M W F 10. Section II M W F 11.

§15a-16a. Spanish Literature. 6 points.

[2]

Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15-16. This course is not divisible under any circumstances. Prerequisite: Courses 3 and 4 or 3a and 4a, or 5 and 6. PROFESSOR DEL RÍO. M W F 10.

[§17-18. The Spanish Drama of the Golden Age. 6 points.

Not given in 1963-64.]

§19. Nineteenth Century Literature in Spain. 3 points.

[17]

Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the department. PROFESSOR DA CAL. Tu Th 3:10.

§21, 22. Contemporary Spanish Literature. 6 points.

[9]

Autumn Term: The generation of 1898. Two written book reports on: The novelistic characters of Unamuno; the novelistic technique and style of Baroja, Valle Inclán, and Azorín. Spring Term: From the post-1898 generation to the present. Two written book reports on: Ortega y Gasset's essays as compared to Unamuno's; on any of the great poets from Juan Ramón Jiménez to García Lorca. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the instructor. PROFESSOR DEL RÍO. Tu Th 2:10.

§23-24. Spanish-American Literature. 4 points.

[8]

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the department. PROFESSOR FLORIT. Tu Th 11.

§25-26. Cervantes. 6 points. PROFESSOR DEL RÍO.

Not given in 1963-64.]

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§27-28. Spanish Poetry. 6 points.

[3]

A study of the development of the poetry of Spain from its origin to the present time. Prerequisite: Course 15-16 or 15a-16a, or written permission of the instructor. PROFESSOR FLORIT. M W F 11.

§29, 30. Special Reading. 4 points.

[0]

Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. M W 1:10.

[33, 34. Introduction to the Literature of Spain in Relation to the Kindred Arts (in English) 4 points.

Not given in 1963-64.]

C3811x-C3812y. Latin-American Seminar. 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-America Areas. PROFESSORS DE MORELOS and RABASSA. M 3:10-5.

ZOOLOGY

PROFESSORS: INGRITH J. DEYRUP, JOHN A. MOORE (Chairman)

ASSISTANT PROFESSORS: ¹LUCENA J. BARTH, PATRICIA L. DUDLEY, -----

ASSISTANTS: -----, -----, -----, -----

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend on the ultimate aims of the student, and will be planned in consultation with members of the department. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

Chemistry 1, 8, and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in zoology requires a knowledge of German and French (or some other modern language).

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Massachusetts. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major examination represents an attempt to correlate and analyze the basic concepts of zoology. Further information about it may be obtained from members of the department.

1-2. General Zoology. 10 points.

[1]

An introduction to the data, methods, and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution, and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genetics, embryology, and physiology. PROFESSORS MOORE and DUDLEY, and assistants. Lec. M W F 9. Lab. (4 hours) M 1:10-5; Tu 2:10-6; W 1:10-5; Th 2:10-6; F 1:10-5; Tu Th 10-11:50.

1a-2a. General Zoology. 6 points.

[1]

Lectures identical with those of Course 1-2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9.

3. A Study of Biological Concepts. 4 points.

[1]

A historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1-2 or special permission. PROFESSOR BARTH. Lec. W F 9. Lab. (4 hours) F 1:10-5.

¹Absent on leave, Spring Term.

ZOOLOGY

5. **Genetics.** 4 points. [1]
A discussion of the inheritance, structural basis, and mode of action of genetic material. —————. Lec. M W 9. Four additional hours of laboratory-conferences to be arranged.

6. **Evolution.** 4 points. [1]
A consideration of the theories and data relevant to the origin and evolution of living forms, with emphasis on animals. —————. Lec. M W 9. Four additional hours of laboratory-conferences to be arranged.

7. **Invertebrate Zoology.** 4 points. [7]
Evolution of invertebrate animals. Comparative study of microscopic and gross structure, physiology, life histories, behavior and distribution of invertebrates. Major emphasis on evolution. Some field trips to representative habitats. Prerequisite: Course 1-2. PROFESSOR DUDLEY. Lec. Tu Th 10. Lab. (4 hours) M 1:10-5 or Th 2:10-6.

14. **Embryology.** 4 points. [8]
The development of the vertebrate animal, with a consideration of some of the factors which influence development. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of the instructor. —————. Lec. Tu Th 11. Lab. (4 hours) W 1:10-5 or Th 2:10-6.

16. **General Physiology.** 5 points. [2]
The physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail. Prerequisite: Course 1-2; Chemistry 41. PROFESSOR DEYRUP. Lec. M W F 10. Lab. (4 hours) M 1:10-5, Tu 2:10-6, or W 1:10-5.

61, 62. **Problems in Zoology.** [0]
Independent work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS DEYRUP, BARTH and DUDLEY. Hours and credit by arrangement.

72. **Senior Seminar.** 2 points. [0]
Reading of literature and discussion of fundamental problems of zoology. PROFESSOR DEYRUP. Hours by arrangement.

G6151x. Vertebrate Physiology. 6 points.
Functions and interrelationships of the organs and organ systems of vertebrates. Circulation, respiration, gastro-intestinal function, excretion, additional mechanisms concerned with the regulation of the internal environment and the integrative role of the central nervous system. Prerequisite: Course 1-2 or equivalent, inorganic chemistry and physics. Admission only with permission of instructor. PROFESSOR DEYRUP. Lec. M W F 11. Lab. (6 hours) M W 2:10-5.

G6415x. Vertebrate Physiology. 3 points.
Lectures identical with those of Course G6151x. No laboratory work. PROFESSOR DEYRUP. M W F 11.

VIII. Professional Schools

Professional and graduate training is available at Columbia University in many different areas. Barnard College keeps in close touch with the Schools and the Graduate Faculties and class and major advisers give pertinent advice concerning them.

The requirements for admission vary: in some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Announcements may be obtained from the Secretary of Columbia University. General information concerning admission requirements of specific professional schools and certain graduate programs follows.

THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in a professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

ARCHITECTURE

The School of Architecture offers courses of study leading to the degrees of Bachelor of Architecture and Bachelor of Planning. Under normal conditions, these degrees may be obtained in four years.

The work at Barnard should include a full-year course in each of the following: English composition and literature, a foreign language (preferably French or German), mathematics, through differential and integral calculus, physics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, two

PROFESSIONAL SCHOOLS

years of undergraduate liberal arts study is required for admission to the School of Architecture. The courses are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of University Admissions.

BUSINESS

The Graduate School of Business offers a four term course of study leading to the degree of Master of Business Administration. The School operates on a non-mandatory trimester academic schedule, thereby making possible the completion of the program in sixteen months. Advanced studies lead to the degree of Doctor of Philosophy.

The School has available, through its several programs of student aid, the means to assist all those who require marginal help to carry a full program of daytime classes. Applications for the degree programs are accepted from students who are able to take advantage of continuous study on a full-time basis and who have earned the baccalaureate or its equivalent. The School has long accepted qualified female candidates for its degrees, for it is felt there are rewarding opportunities in business for women with special competence.

A limited number of special students with unique and appropriate qualifications are admitted for study without degree credit after an interview with the Assistant Dean.

DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following: English, six points; biological science or chemistry, three points; sociology or psychology, three points. Applicants who lack not more than eight of the 60 credits required for admission will be considered for matriculation on condition that the eight credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

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DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of six points each in English composition and literature, physics, zoology, inorganic and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

ENGINEERING

The School of Engineering and Applied Science offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, mineral, and nuclear engineering. It also offers programs in the applied sciences: applied biology, applied physics, engineering geology, engineering science in mechanical engineering, flight sciences, engineering mathematics, engineering mechanics, engineering science in chemical engineering, and nuclear engineering science. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those which offer a thorough foundation in the application of fundamental principles to a specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering should offer at entrance to Barnard: mathematics through trigonometry, physics, and if possible, chemistry, in addition to the general admission requirements. For details the Dean of the School of Engineering and Applied Science should be consulted.

PROFESSIONAL SCHOOLS

Further information about the engineering program and the advanced degrees may be obtained from the announcement of the School.

INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a superior undergraduate record and (b) a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Program on East Central Europe, Russian Institute, European Institute, the Program on Africa, and the Institute of Latin-American Studies.

Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics, and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. Although there is no required pre-law curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both. An undergraduate degree is generally a prerequisite for admission, although in some instances a student whose academic record and aptitude for the study of law are exceptional may be admitted after three years (90 points) of college work.

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Admission is on a competitive basis. All applicants are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey.

LIBRARY SERVICE

The School of Library Service offers a year of graduate study leading to a Master of Science degree. Basic professional training is provided for work in college and university, public, school and special libraries. Individuals with the requisite backgrounds and interest may be admitted to "special programs" in such fields as music, law, medicine, business and economics, science, art and theology.

Candidates for admission should have a Bachelor's degree in liberal arts. An aptitude test and two years' study of a modern foreign language on the college level are among the requirements for admission.

Advanced study leading to the Doctor of Library Science degree is also offered.

Additional information about careers in library science, the School's program, and admission requirements may be obtained from the School of Library Service, 516 Butler Library.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry covering at least one and one-half academic years, including a course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a course of three academic years and two summer sessions leading to the degree of Bachelor of Science. This program is conducted on the campus of the Columbia-Presbyterian Medical

Center. Preparatory work should comprise work in chemistry, biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as on fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work. The course for students who hold a Bachelor's degree is two years in length.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. Two years (60 points) of acceptable college work are required for admission, including a minimum of six points in biology (including zoology), chemistry or physics; six points in psychology, and three points in sociology. The course of study is of twenty-five months' duration including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of six points in biology (including zoology), chemistry or physics; six points in psychology and three points in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health, and emotional stability.

Additional information and guidance may be obtained from the Office of Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years (60 points) of acceptable college work, including six points in biological science, six points in physics, and six points in psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include six points each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers twenty-one calendar months,

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including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: eight points in biological science; six points in physics; ten points in social science (of which six must be in psychology). The Faculty of Medicine awards a certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information and guidance regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PROGRAM IN THE ARTS

The Program in the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in painting, sculpture, film, radio and television).

A bulletin describing these courses is available at the Office of University Admissions.

PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Administrative Medicine, Biostatistics, Hospital Administration, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students. A calendar year of administrative residency, or an equivalent experience, is required of all candidates for the degree in administrative medicine.

SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science.

PROFESSIONAL SCHOOLS

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

Admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained from the Director of Admissions, 2 East 91st Street, New York 28, N. Y.

TEACHERS COLLEGE

Teachers College, Columbia University, offers college graduates: a one-year course of study leading to the Master's degree and certification for teaching in the elementary and secondary schools; special programs for the mentally retarded and physically handicapped. The year's work at Teachers College provides for practical experience and classroom instruction.

For guidance on planning programs for teacher preparation, see Miss Josephine Mayer, Director of the Barnard Education Program, 106 Barnard Hall, or the Director of Admissions, Russell Hall, Teachers College.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature and Comparative Religions, and Master of Sacred Music.

Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology,

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and at least one modern language, either French or German. A knowledge of Greek is desirable.

b. Master of Arts in the fields of Christian Education, Biblical Literature and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of either French or German, and such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.

d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

IX. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise, rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

SUMMARY OF FEES

		Each Term	Academic Year
I.	Full-time non-resident students		
A.	Tuition and fees ¹	\$ 775.00	\$1,550.00
	Undergraduate Association		
	Activity Fee	10.00	20.00
	Total	\$ 785.00	\$1,570.00
B.	Optional fee to participate in Columbia University Student Medical Plan ²	10.00	20.00
	Total	\$ 795.00	\$1,590.00
II.	Full-time resident students		
	Tuition and fees ¹	\$ 775.00	\$1,550.00
	Undergraduate Association		
	Activity Fee	10.00	20.00
	Residence fees ³	490.00	980.00
	Total	\$1,275.00	\$2,550.00
III.	Other students		

Matriculated students taking less than a full schedule (11 points or less) and all non-matriculated students are required to pay the registration and medical fees each term, as well as \$60 per point for all academic work and \$5 for physical education, if this is required.

¹ Includes registration and medical office fees.

² This additional fee is required for all non-resident students living in Fairholm, Johnson, or Whittier Halls, or at 616 West 116th Street and for students participating in the Medical Health Insurance Plan.

³ Includes room, board, laundry and required participation in Columbia University Student Medical Plan. Board is available to non-resident students at the annual rate of \$500.

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All matriculated students are also required to pay the Under-graduate Association activity fee.

Students registering in absentia for one term or for one year are required to pay a registration fee of \$15.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing autumn or spring term, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the charges of the autumn or spring term, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the autumn term and the remainder to the charges of the spring term. The entire deposit is forfeited in case of withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 41, 42, 58, 63, 87, 88, each course.....	\$20.00
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V. Payment of Charges and Fees

All charges and fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by the stub of the bill) must be made by September 15 for the autumn term and by January 15 for the spring term. If payments are mailed, envelopes must be postmarked not later than September 15 or January 15 respectively. Students admitted for the autumn term after September 10 must pay their bills not later than September 25.

The privileges of the College are not available to any student who is delinquent in the payment of her charges or fees.

All charges and fees are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all charges and fees must be in U. S. currency, payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the autumn term or by May 1 of the spring term, if the student is to be permitted to take her examinations and receive credit for the term's work.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded).

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany.

VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the term until November 15 or March 15, provided that such permission is granted before September 10 (for the autumn term) or January 10 (for the spring term).

Any application for the privilege of deferred payment made after September 10 or January 10 will be subject to a late payment fee of \$5.

Where the privilege of deferred payment has been granted each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for charges and fees will become due immediately.

VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College for the entire year, no refunds of charges and fees, except for board charges, can be made after they fall due. Refunds for the board portion of the charges may be made only in cases of extreme emergency, of which the College shall be the sole judge. Such refunds will be computed on a pro-rata basis from the date of withdrawal to the end of the term. Application for the refund must be made in writing to the Director of Residence Halls at the time of withdrawal.

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No refunds for board will be made for students who wish to take meals off-campus. Barnard is non-denominational and no provision can be made for special diets.

VIII. Additional Charges

Art studio fee: The fee for materials and supplies used in art laboratory work per term is	5.00
Tuition for courses in applied music: See departmental announcement of courses, page 116.	
Tuition for technical courses in art history: See announcement of the School of General Studies for special fees.	
Deficiency and special examinations, payable in each case before the examination is held:	
For each deficiency examination	5.00
For each special examination	10.00
(A special or deficiency examination is one taken at any time other than the conclusion of a course.)	
Late registration for academic work (see page 37)	15.00
Late filing of:	
Tentative program cards	10.00
Major blanks	10.00
Application for deficiency examinations.....	5.00
Application for foreign language test	5.00

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$22; Student Government dues of \$2 for resident students; and a minimum of \$75 per year for textbooks. Non-resident students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include: minimum allowances for transportation for non-resident students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150-\$200).

X. Medical Plan

Campus medical service is available to all students and is covered by the comprehensive charge payable each term. Medical examinations are required for freshmen and seniors. (Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for completion of the examination by the College Physician is December 15 for seniors; for freshmen May 15.)

Resident students, students living in Fairholm, Johnson, or Whittier Halls, or at 616 West 116th Street, are required to pay an additional medical fee of \$10 each term. This allows them to participate in the Columbia University Student Medical Plan during the academic year. Non-resident students living at home may also participate in this plan by paying the additional \$10 fee each term. The CUSMP entitles the student to the following services:

A. Barnard College Medical Office: Medical treatment for conditions not requiring bed care; admittance to the Columbia University Infirmary.

B. Columbia University Medical Office: Consultation with specialists; surgical treatment of minor surgical conditions; laboratory and X-ray studies as deemed advisable. All students must be referred by the Barnard College Physician.

Not provided: Dental care; fitting and provision of glasses; house calls.

C. Columbia University Infirmary: Bed care for ten days a term will be provided without charge.

D. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each term. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

XI. Medical Health Insurance

Students are eligible to purchase a special student commercial policy which provides basic accident benefits in or out of the hospital, basic hospital benefits and doctor's visits. In addition, a major medical expense benefit up to \$5,000 is provided for medical expenses incurred either at home, in the hospital, or in the doctor's office, if resulting from either an accident or an illness. Benefits apply on or off the campus, 24 hours a day, on a calendar year basis, including vacation periods, from September 1 to August 31.

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The cost of this insurance is \$30 per year (from September 1) or \$19 for period February 1-September 1. See the Bursar's Office for further details.

XII. Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Columbia University Student Medical Plan and the Medical Health Insurance policy described above. The fee of \$10 each term for the former (CUSMP) will be included in the bill of all students living in the Barnard residence halls. The Medical Health Insurance fee of \$30 a calendar year is payable to the Indemnity Insurance Company of North America. Full information concerning this policy will be mailed to the student with her college bill.

XIII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$62.88. See the Bursar's Office for complete details.

XIV. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of the bursar's receipt. A bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company
Broadway and 113th Street, New York 25, N. Y.

First National City Bank of New York
Broadway and 111th Street, New York 25, N. Y.

American-Irving Savings Bank
Broadway and 111th Street, New York 25, N. Y.

X. Financial Aid

In so far as possible, the College helps qualified students who have financial need. In effect, every student at Barnard receives some financial aid from past donors, since the College fees do not cover the entire cost of her education today. The balance is made up by endowment income and gifts. In addition to grants and loans, opportunities for part-time employment are provided to open Barnard's doors to girls of superior talent from all sections of the country. (See Placement Office, page 45.) Students are urged to investigate state aid programs and college tuition financing plans offered by local banks and insurance companies.

ANNUAL AWARDS

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students of high scholarly ability, excellent character, and promise of future accomplishment. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, such as the New York State Regents' Scholarships.
3. The student's savings distributed over a four-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$200).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 164.

Awards are for one year only. Students in good standing are eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that office on or before February 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering students who are applying for aid must also file a financial

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statement with the College Scholarship Service, Box 176, Princeton, New Jersey, or Box 27986, Los Angeles 27, California, not later than February 15 of the senior year in high school. Forms may be obtained from the school or they will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the college.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a non-competitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

STUDENTS IN COLLEGE: Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the office of the Dean of Studies. Applications must be filed on or before February 4, 1964.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Dean of Studies immediately, in writing, of their plans with respect to the funds assigned to them.

LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld '08.

These funds are administered by the Faculty Committee on Financial Aid. Loans are regularly assigned to upperclassmen as part of their financial aid award; the maximum loan per year is \$500. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness totalling \$300 or more is repaid in semi-annual installments of \$150 each. Interest is charged from the first day of the month after graduation at the rate of 3% per annum.

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The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Chairman of the Committee on Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

A list of scholarship funds established by gifts or endowment follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

SCHOLARSHIP FUNDS—UNRESTRICTED¹

ALUMNAE SCHOLARSHIP FUND (1922). A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$14,900.

ANNA E. BARNARD SCHOLARSHIP FUND (1899). In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

BARNARD COLLEGE CLUB OF NORTH CENTRAL NEW JERSEY SCHOLARSHIP (1962). A variable stipend awarded annually at the discretion of the Faculty Committee on Financial Aid from the proceeds of the North Central New Jersey Club's fund-raising activities.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950). In honor of Ruth Marshall Billikopf '19. \$5,000.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952). From the estate of Varian White Blumberg '13. \$5,000.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1899). By pupils and former pupils of the Brearley School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

ARTHUR BROOKS FUND (1897). By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

THOMAS F. CLARK STUDENTS' LOAN FUND (1928). By bequest of Mrs. Fanny Foster Clark. \$100,000.

¹ Figures compiled as of January 1, 1963.

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JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.

CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.

CLASS OF 1954 SCHOLARSHIP FUND (1955). A fifth reunion gift of the Class of 1954. \$4,584.

ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.

FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.

GALWAY FUND (1912). By an anonymous donor. \$2,400.

IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.

GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.

LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,397.

HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.

CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.

LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$22,684.

JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$4,879.

ANNE ELIZABETH LINCOLN SCHOLARSHIP FUND (1963). From the estate of Anne Elizabeth Lincoln '24. \$6,000.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate prizes, page 180.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

CECILE LEHMAN MAYER SCHOLARSHIP FUND (1962). With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to a maximum of four or fewer students. \$25,000.

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$19,874.

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WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

M. GLADYS QUINBY SCHOLARSHIP FUND (1961). By bequest of M. Gladys Quinby '08 and gifts of friends. \$4,887.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,400.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,300.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$10,000.

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,000.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,100.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$12,000.

KATHERINE FLINT SHADEK SCHOLARSHIP FUND (1961). By Katherine Flint Shadek '44. \$10,920.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,797.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$9,515.

SOLON E. SUMMERFIELD FOUNDATION SCHOLARSHIP FUND (1960). A gift from the Solon E. Summerfield Foundation. \$3,000.

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VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,600.

HYMEN WERNER SCHOLARSHIP FUND (1953). In memory of her husband, Hymen Werner, by Helen Frankfield Werner '06. \$4,500.

SCHOLARSHIP FUNDS—RESTRICTED¹

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$23,400.

BARNARD-IN-WESTCHESTER ENDOWMENT FUND (1962). By the Barnard College Club of Westchester County, for scholarships, preferably for students from Westchester County. \$4,057.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

IDA BLAIR MEMORIAL FUND (1937). In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

WILLIAM TENNEY BREWSTER AND ANNA RICHARDS BREWSTER FUND (1961). By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$122,450.

¹ Figures compiled as of January 1, 1963.

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BROOKLYN SCHOLARSHIPS (1895). By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939). In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919). By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901). By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910). By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

CLASS OF 1919 DECENTNIAL FUND (1929). A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

AUGUSTA SALIK DUBLIN SCHOLARSHIP FUND (1960). In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,100.

ENGLISH SCHOLARSHIP FUND (1920). By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958). In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

MARTHA T. FISKE SCHOLARSHIP FUND (1911). In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

FOOD FAIR SCHOLARSHIP (1954). By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

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HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTZOG SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers. \$5,000.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,900.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

KIMBALL FELLOWSHIP FUND (1938). By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,800.

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain. If at any time there is no applicant

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from Spain eligible for the grant, it may at the discretion of the Department be awarded to a student who is majoring in Spanish. \$13,827.

EUGENE F. AND MINNIE GOUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

MRS. DONALD MC LEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,450.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department, be awarded to a student who is majoring in Spanish. \$21,333.

FELIX ST. GEORGE SCHOLARSHIP (1955). In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or pre-medical course, more particularly physics, chemistry, or biology. \$7,450.

SEVEN COLLEGE SCHOLARSHIPS (1943). The Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley) gives twenty-one scholarships each year to entering freshmen. Each college offers a scholarship to

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a student living in one of the following areas: Central (Colorado, Kansas, Missouri, Nebraska); Southwest (Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas); West (California, Idaho, Oregon, Washington). Amounts range from honorary awards which carry no stipend up to the full cost of tuition, room and board.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$56,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$5,000.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

FAIRFIELD COUNTY SCHOLARSHIP (1962). Awarded preferably to entering freshmen from Fairfield County for one year only.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 1139 Second Avenue, New York 22, N. Y.

WESTCHESTER SCHOLARSHIP (1937). In memory of Edna Chapin Close '02, by the Barnard College Club of Westchester. Awarded preferably to entering freshmen from Westchester County for one year only.

XI. Honors

The following funds were established to honor those who have shown exceptional promise of distinction in their chosen line of work. Students do not apply for these fellowships and scholarships; they are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

GRADUATE FELLOWSHIPS

DOROTHY ALLEN FELLOWSHIP (1948). Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

ASSOCIATE ALUMNAE OF BARNARD COLLEGE GRADUATE FELLOWSHIP (1963). To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$40,000.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930). By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

GRACE POTTER RICE FELLOWSHIP FUND (1935). In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

THE HERBERT MAULE RICHARDS FUND (1933). In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from

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1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$12,000.

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career. Income on \$3,000.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

CLARA L. FROELICH MATHEMATICS PRIZE (1962). By Clara L. Froelich '15. Awarded annually by the Department of Mathematics to a member of the graduating class whose work in mathematics has revealed superior ability in grasping the concepts of the subject and has been distinguished by thoughtful devotion to fundamental ideas rather than to the mere mastering of techniques. \$200.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

UNDERGRADUATE AWARDS¹

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,000.

¹ Figures compiled as of January 1, 1963.

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MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,000.

THE AMERICAN STATISTICAL ASSOCIATION PRIZE, NEW YORK AREA CHAPTER (1960). Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses. \$1,640.

BORDEN FRESHMAN PRIZE (1962). A prize of \$200 awarded to the freshman who carries a full academic program throughout the year and receives the highest average in her class. In the event of a tie it will be awarded to the student whose program was the heaviest. During the autumn immediately following, the winner will be announced and the prize awarded, regardless of whether or not she returns to Barnard. \$1,000 from the Borden Company Foundation.

EUGENE H. BYRNE HISTORY PRIZE FUND (1960). In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. \$3,604.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

THE JENNY A. GERARD MEDAL (1908). The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

GERMAN PRIZE FUND (1950). Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

HERRMAN BOTANICAL PRIZE FUND (1892). Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany. \$1,000.

MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES. Awarded to an undergraduate for the best essay on Cervantes.

FRÉDÉRIC G. HOFFHERR FRENCH PRIZE FUND (1961). In memory of Frédéric G. Hoffherr, Associate Professor of French from 1936 to 1955. The income is awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their Barnard career. \$1,025.

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THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the Chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor. \$500.

AMY LOVEMAN MEMORIAL FUND (1956). In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,099.

THE LENORE MARSHALL PRIZES FOR WRITING (1960). For excellence in poetry and prose contributed to the undergraduate magazine, *Focus*. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$50 each.

SIDNEY MINER POETRY PRIZE FUND (1962). In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. \$5,000.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949). By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

THE HELEN PRINCE MEMORIAL PRIZE FUND (1921). In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949). In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000.

CAROLINE GALLUP REED PRIZE FUND (1916). In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

MARIE REIMER SCHOLARSHIP FUND (1953). In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded at the end of her junior year to an out-

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standing student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year. \$4,950.

ANGELA DE SALVO SCOLA MEMORIAL PRIZE. In memory of Angela De Salvo Scola '31, by the Barnard College Club of Springfield, Massachusetts. To be awarded annually from 1961 through 1965 by representatives of each of the romance language departments to a junior for excellence in at least two romance languages. \$50.

SYLVIA KOPALD SELEKMAN PRIZE FUND (1960). In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. \$500.

SPANISH PRIZE. To be awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

SPERANZA ITALIAN PRIZE FUND (1911). In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917). In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

VON WAHL PRIZE (1915). In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

THE ACADEMY OF AMERICAN POETS PRIZE. A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the spring term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. The subject for 1963-64 is: Any topic dealing with the domestic or foreign policy of the United States selected in connection with seminar work in one of the social science departments and approved by the Chairman of the Bennett Prize Committee. For additional information consult Professor Richard E. Neustadt.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who

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shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Howard H. Schless.

EARLE PRIZE IN CLASSICS. A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor Thomas Suits.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. For additional information consult Professor Richard E. Neustadt.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult Professor Frederick W. Dupee.

WOODBERRY PRIZE. Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1964-65. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley.

XII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over twelve thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard alumnae living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. WILLIAM P. WHITE, President

MRS. LEWIS GOLDENHEIM, Vice-President

MRS. JOHN F. DOOLING, JR., Vice-President

MRS. EDGAR T. MEAD, JR., Secretary

MISS MARY A. BLISS, Executive Secretary

DIRECTORS

MRS. EDWARD H. AUCHINCLOSS

MRS. SYDNEY LEWINSON

MRS. HENRY C. BARKHORN, JR.

MRS. RANDALL MCINTYRE

MRS. MORRIS E. BIEDERMAN

MRS. MARC ROSE

MISS LOIS E. CAMPAINNE

MRS. BERNARD SCHWARTZ

MRS. ARTHUR FRANZEN

MISS JOSEPHINE SKINNER

MRS. JAMES E. GARDNER, JR.

MISS EDITH I. SPIVACK

MRS. CARL HARRIS

MRS. CHARLES STEHLE

ALUMNAE TRUSTEES

MISS FRANCES MARLATT

MRS. MARK VAN DOREN

MRS. WALT W. ROSTOW

MRS. WILLIAM P. WHITE

BARNARD COLLEGE

ALUMNAE REPRESENTATIVES

ARIZONA

Flagstaff	— MISS MARGARET CARRIGAN 616 West Whipple Road
Phoenix	— MRS. A. PRESBY COLBURN 7017 North 13th Street
Tucson	— MRS. RICHARD B. WOODBURY 2227 East Kleindale Road

ARKANSAS

Hot Springs	— MRS. CHARLES E. GARRATT 717 Prospect Avenue
Little Rock	— MRS. NORMAN HOLCOMB 2903 North Pierce

CALIFORNIA

Bakersfield	— MRS. JOHN C. ANDERSON 204 Fairway Drive
Berkeley	— MRS. ROBERT H. SCHWAAR 116 Hill Road
Carmel	— MRS. TALCOTT BATES Route 3, Box 575
Del Mar	— MRS. DOUGLAS M. FOUCET 1540 Forest Way
Fair Oaks	— MRS. ROBERT BRADEBURY 4617 Minnesota Avenue
Hacienda Heights	— MRS. ERNST E. ERSELIUS 15982 Atitlan Drive
Menlo Park	— MISS PATRICIA SHANAHAN 934A Alice Lane
Monterey	— MRS. WERNER SEWALD 40 Via Cimarron
Pasadena	— MRS. NATHAN PATIGALIA 285 Glenullen Drive
San Francisco	— MRS. MAX SEMEL 93 Rockaway Avenue
Santa Barbara	— MRS. J. SAMUEL RUGG 1135 Oriole Road

COLORADO

Boulder	— MRS. CARL C. ZIER 2235 Glenwood Drive
Denver	— MRS. CARL E. FEHRENBACH 3232 South Josephine Street

ASSOCIATE ALUMNAE

CONNECTICUT

Hamden — MRS. WILLIAM E. HOBLITZELLE, III
100 Putnam Avenue

Hartford — MRS. NORMAN RUUD
240 Kenyon Street

Weston — MRS. ALDEN O. SHERMAN
Weston Road

DELAWARE

Wilmington — MRS. V. HARDY SCHEUERMAN
2416 Shellpot Drive, Oak Lane Manor

DISTRICT OF COLUMBIA

Washington — MRS. CHARLES E. CLIFT, JR.
3500 Rodman Street, N.W.

FLORIDA

Cecil Field — MRS. THOMAS E. CARNELL
Box 142, Quarters 101A, N.A.S.

Coral Gables — MRS. WILLARD R. BROWN
3720 Harlano Street

GEORGIA

Atlanta — MRS. DONN M. GAEBELEIN
31 Lakeland Drive, N. W.

HAWAII

Kailua — MRS. HARRY MACD. SIEGMUND
616 Uluhala Street

IDAHO

Blackfoot — MRS. JOSEPHINE PRICE
189 South University Boulevard

ILLINOIS

Chicago — MRS. LAWRENCE J. GOODMAN
8109 South Essex

Lombard — MRS. THOMAS P. HECKMAN
533 Edgewood Road, Flowerfield

Urbana — MRS. THOMAS A. READ
507 East Harding Drive

Wilmette — MRS. ROBERT D. KNOX
1114 Forest Avenue

INDIANA

Indianapolis — MRS. VERTICE BELCHER
735 Kessler Boulevard, East Drive

West Lafayette — MRS. JOHN S. KARLING
1219 Tuckahoe Lane

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IOWA

Ottumwa — MRS. H. GERALD HOXBY
724 East Highland Avenue

KANSAS

Goodland — MISS JO CLARE MANGUS
P.O. Box 397

Kansas City — MRS. ROBERT W. HAMILTON
3229 West 43 Avenue

Lawrence — MRS. THOMAS R. SMITH
4 Westwood Road

Topeka — MRS. J. RICHARD FOTH
4011 West 29 Street

Wichita — MRS. WILLIAM R. SMITH
358 North Fountain Road

LOUISIANA

New Orleans — MRS. GEORGE R. MONTGOMERY
479 Audubon Street

MAINE

Brunswick — MRS. JAMES S. COLES
85 Federal Street

Orono — MRS. WILLIAM A. SLEEPER, JR.
36 College Avenue

MARYLAND

Baltimore — MRS. CHARLES R. JOHNSON
150 West Lanvale Street

Timonium — MRS. JAMES H. BROWNLOW
2131 Pine Valley Drive

MASSACHUSETTS

Pittsfield — MRS. LAWRENCE D. BURKINSHAW
123 Asci Drive

Springfield — MRS. ARTHUR A. LEVIN
1764 Parker Street

Wellesley — MRS. PAUL W. FAGER
42 Ingraham Road

MICHIGAN

Detroit — MRS. FREDERICK J. DYKSTRA
471 Hildale Avenue West

Trenton — MRS. T. EMBURY JONES, JR.
3125 Patton Drive

ASSOCIATE ALUMNAE

MINNESOTA

Minneapolis — MRS. FRANK J. GILLIS
69 Melbourne Avenue S. E.
St. Paul — MRS. JOHN A. BLUM
2051 Montreal Avenue

MISSOURI

University City — MRS. L. C. DEVOTO, JR.
7151 Cambridge

NEBRASKA

Omaha — MRS. JACKSON M. BARTON
2506 South 95 Street

NEW JERSEY

Chatham — MRS. CHARLES E. ALLCOCK
7 Whitman Drive
Morristown — MRS. HOMER VAN BEUREN JOY
103 Skyline Drive
West Long Branch — MRS. G. PHILIP LAWRENCE
25 Brookwillow Lane

NEW MEXICO

Albuquerque — MRS. HAROLD BELLINGHAM
2808 Kathryn Street, S. E.

NEW YORK

Albany — MISS FRANCES M. SMITH
24 Stonehenge Lane
Brainard — MRS. HUGH B. CORBITT
Riders Mills Road
Brooklyn — MISS NORA ROBELL
2518 Avenue I
Buffalo — MRS. BURTON M. SHINNERS
344 Linwood Avenue
Larchmont — MRS. ALBERT GAYNOR
3 Concord Avenue
Rochester — MRS. DONALD B. STEIG
2125 Monroe Avenue
Syracuse — MRS. RALPH SCHERER
502 Beverly Drive
Westbury — MRS. REINHARD K. HELLMANN
309 Plainfield Street

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NORTH CAROLINA

Raleigh — MRS. ROBERT M. CORNISH
38 Dixie Drive

OHIO

Cincinnati — MRS. HARRY W. WHITTAKER
2497 Grandin Road

Cleveland — MRS. JEROME M. FRIEDLANDER JR.
19917 Wickfield Avenue S. E.

OKLAHOMA

Oklahoma City — MRS. ROBERT N. FULTON
3816 North West 61 Street

OREGON

Albany — MRS. STEPHEN YIH
Box 189, Route 2

Eugene — MRS. GERALD C. JOHNSON
2324 Olive Street

Portland — MRS. JAMES H. CLARKE
2324 South West Sherwood Drive

PENNSYLVANIA

Bethlehem — MRS. EDWARD C. PERKINS
72 East Market Street

Pittsburgh — MRS. PAUL B. FLECK
148 Washington Street

Villanova — MRS. L. SPRAGUE DE CAMP
278 Hothorpe Lane

PUERTO RICO

Ponce — MRS. MARTIN LANDESBERG
Box 1506

Santurce — MRS. ALBERT SANCHEZ
P.O. Box 9939

TEXAS

Austin — MRS. BURKE H. JUDD
6819 Joyce Street

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4215 Ridge Road

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2518 Shakespeare

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Route 2, Box 275

Tyler — MRS. JAMES R. MONTGOMERY
1015 Watkins Street

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VIRGINIA

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1915 Montaigne Drive

Charlottesville — **DR. AUDREY BROWN BOLLET**
1714 Yorktown Drive

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Bellingham — **Mrs. JOHN HARTMAN HODGE**
2486 Pleasant Bay Road

Seattle — **Mrs. PETER WAYS**
3863 50 Street, N. E.

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West 2229 First Avenue

Yakima — **Mrs. STEPHEN B. MOSER**
Route 2, Box 121A

WISCONSIN

Madison — **Mrs. EUGENE N. CAMERON**
4318 Yuma Drive

Milwaukee — **Mrs. DWIGHT L. BAKER**
439 North 50 Street

XIII. Statistics

1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1958 to 1959	1959 to 1960	1961 to 1962	1962 to 1963
UNDERGRADUATES, REGULAR:													
Seniors	40	62	*123	87	227	*181	*164	*208	*260	245	335	325	*345
Juniors	40	122	110	190	259	237	220	191	314	277	340	360	360
Sophomores	37	109	191	193	234	247	226	210	314	272	317	356	428
Freshmen	14	54	188	240	224	271	267	246	314	271	304	345	387
Unclassified students .....	.....	.....	.....	.....	57	54	103	143	56	17	1	9	350
14	171	481	664	694	947	1076	997	954	1216	1097	1207	1381	112
SPECIAL STUDENTS:													
Matriculated	21	24	32	39	33	28	29	31	21	15	20	28	24
Nonmatriculated	30	32	22	22	33	33	28	31	21	15	20	35	26
Departmental (1889-1896)	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
Music students (1896-1904, 1914-1915)	41	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	...
22	62	54	69	61	33	28	29	31	21	15	20	35	24
GRADUATE STUDENTS (1890-1900)	82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD	36	535	733	755	980	1104	1026	985	1237	1112	1227	1416	1455
STUDENTS FROM COLUMBIA UNIVERSITY STUDENTS FROM TEACHERS COLLEGE	18	59	28	80	153	234	163	92	77	94	104	104	1480
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY	18	200	108	38	50	62	21	20	12	4	3	1	1
TOTAL REGISTRATION	36	333	794	869	873	1183	1400	1210	1097	1326	1210	1334	1647
DEGREES CONFERRED:													
A.B.	39	88	141	139	198	247	221	206	270	303	258	345	347
B.S. (1909-1918) .....	.....	18	2	8	5	.....	.....	.....	.....	.....	.....	312	356
A.M. (1898-1900)	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1962: A.B., 12,888, B.S., 77.

1913-15 21 in Education
1916-61 4 in Architecture
2 in Business
10 in Journalism
18 in Law
21 in Medicine

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1916-61 4 in Architecture
2 in Business
10 in Journalism
18 in Law
21 in Medicine

XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group **0** includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group **0**), unless *she files in the Registrar's office with her official program a written statement from one or the other instructor that she will be given a special examination.*

Group [1] M W F 9

Chemistry 2; 2a
Economics 1–2 (I)
Economics 17, 18
English 51
English 53y
English 76
History 37, 38
Mathematics 15x, 15y
Mathematics 16x, 16y
Philosophy 1x, 1y (I)
Psychology 18, 18a
Religion 25; 26
Zoology 1–2; 1a–2a
Zoology 3
Zoology 5
Zoology 6

Group [2] M W F 10

Art History 61; 64
Botany 5, 6
Chemistry 55, 56
Economics 1–2 (II)
Economics 27; 28
English 66
English 69; 70
English 79; 80
English 81
French 34
Geology 1; 2
Government 9; 10
History 13, 14
Latin 3; 4
Latin 11; 12
Mathematics 7, 8
Mathematics 25x
Music 1–2 (I)
Philosophy 1x, 1y (II)
Philosophy 61, 62

Psychology 9
Psychology 12, 12a
Psychology 25
Sociology 21–22
Spanish 15a–16a

Group [3] M W F 11

Anthropology 1, 2
Art History 91, 92
Chemistry 41; 42
Economics 16; 23
English 63; 64
French 23, 24
Government 1, 2
Government 31, 32
Greek 11; 12
History 33–34
History 35, 36
Mathematics 26x
Music 1–2 (II)
Philosophy 1x, 1y (III)
Philosophy 43
Psychology 27, 27a
Religion 15, 16
Sociology 31
Spanish 3a; 4a
Spanish 27–28
Zoology 16

Group [4] M W F 1:10

Anthropology 9; 10
Art History 43, 44
Chemistry 63
Economics 1–2 (IV); 5, 6
English 41y
English 67, 68
French 7y
Government 15
Latin 1–2
Latin 11; 12

BARNARD COLLEGE

Philosophy 4; 5

Philosophy 84

Psychology 21

Psychology 24, 24a

Sociology 33

Zoology 7

Zoology 8

Group [5] M W F 2:10

Anthropology 3; 4

Art History 51, 52

Botany 10

Chemistry 99

Economics 25, 26

English 71, 72

English 77; 78

French 21, 22

Geology 27

German 15, 16

Government 11; 12

Greek 1-2

History 57, 58

History 59-60

Philosophy 74

Russian 3-4

Sociology 46

Group [6] Tu Th 9

Botany 1-2; 1a-2a

Tu Th 9:10-10:25

Art History 1-2

Chemistry 1; 1a

Chemistry 8; 51

English 79, 80

English 88

French 27, 28

German 25, 26

Government 25, 26

History 29

Philosophy 7

Philosophy 22

Psychology 15

Psychology 38

Spanish 13, 14

Group [7] Tu Th 10:35-11:50

Anthropology 5-6

Art History 75, 76

Chemistry 85

Classical Civilization 31

Economics 30; 31

English 55, 56

Geography 1, 2

Geography 3; 4

Government 7

Government 27, 28

History 9-10

History 11, 12

Philosophy 1x, 1y (IV)

Philosophy 25

Philosophy 42

Russian 5, 6

Sociology 34

Sociology 39

Group [8] Tu Th 11

Psychology 5, 5a

Psychology 8, 8a

Psychology 57

Spanish 23-24

Zoology 14

Group [9] Tu Th 2:10

Art History 65; 66

Tu Th 2:10-3:25

Anthropology 19; 20

Education 3-4

English 83

English 85

English 86

French 8x

French 31, 32

Government 17; 18

Government 20

History 25

History 55-56

Physics 3-4

Religion 12

Sociology 41, 42

Spanish 21, 22

Group [10] M W F 3:10

Art History 77; 78

Mathematics 56

Sociology 43, 44

Group [11]

Psychology 1x or 1y (Sections)

Psychology 41-42

Group [12]

Art History 97-98 (Th 4:10-6)

English 41, 42 (Sections)

English 87 (Tu 3:35-5:25)

Geography 16W (Tu Th 3:35-4:50)

Hygiene 1 (Tu Th 4:10-5)

EXAMINATION GROUPS

Group [13]

Art History 81 (Tu 3:10–5)
Economics 1–2 (III) (M W F 12)
Geography 17 (M W 12)
Recreational Leadership 1 (M W 4:10)

Group [14]

French 1–2 (Sections)
French 3, 4; 4x (Sections)
French 5, 6; 5y, 6x (Sections)
French 7–8 (Sections)

Group [15]

German 1–2 (Sections)
German 3, 4 (Sections)
German 5, 6 (Sections)
German 31
Russian 1–2 (Sections)

Group [16]

History 1–2 (Sections)
History 7–8 (Sections)

Group [17]

Spanish 1–2 (Sections)
Spanish 3, 4 (Sections)
Spanish 5, 6 (Sections)
Spanish 15–16 (Sections)
Spanish 19

Group [18]

Sociology 1–2 (Sections)

Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Studies 1, 2
American Studies 3, 4
Anthropology 51, 52
Anthropology 53, 54
British Civilization 81–82
Chemistry 58
Chemistry 87, 88
Economics 51–52
Economics 61, 62
English A1–A2 (Sections)
English 1, 2
English 3, 4
English 5, 6
English 7, 8
English 11, 12
English 13, 14
English 15
English 19x (19y)
English 21, 22; 21y
English 23, 24
English 27, 28
English 33, 34
English 91, 92
English 93 (93y)
English 97, 98 (98x, 97y)
French 11, 12
French 13; 14
French 15, 16
French 17–18
French 37–38

French 39–40
Geography 59, 60
Geology 59, 60
German 7, 8
German 9, 10
German 61, 62
Government 45, 46
Government 61–62
Greek 61–62
History 71–72
History 81–82
History 83, 84
History 87–88
Latin 61–62
Philosophy 63, 64
Philosophy 65–66
Physics 61–62
Psychology 48x, 48y
Religion 35, 36
Religion 41
Russian 9, 10
Sociology 38
Sociology 81–82
Sociology 98
Spanish 9, 10
Spanish 11, 12
Spanish 29, 30
Spanish 31, 32
Zoology 61, 62
Zoology 72

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BEQUEST FORM

General

I, give and bequeath to Barnard College in the City of New York the sum of for the uses and purposes of the said Corporation.

Endowment

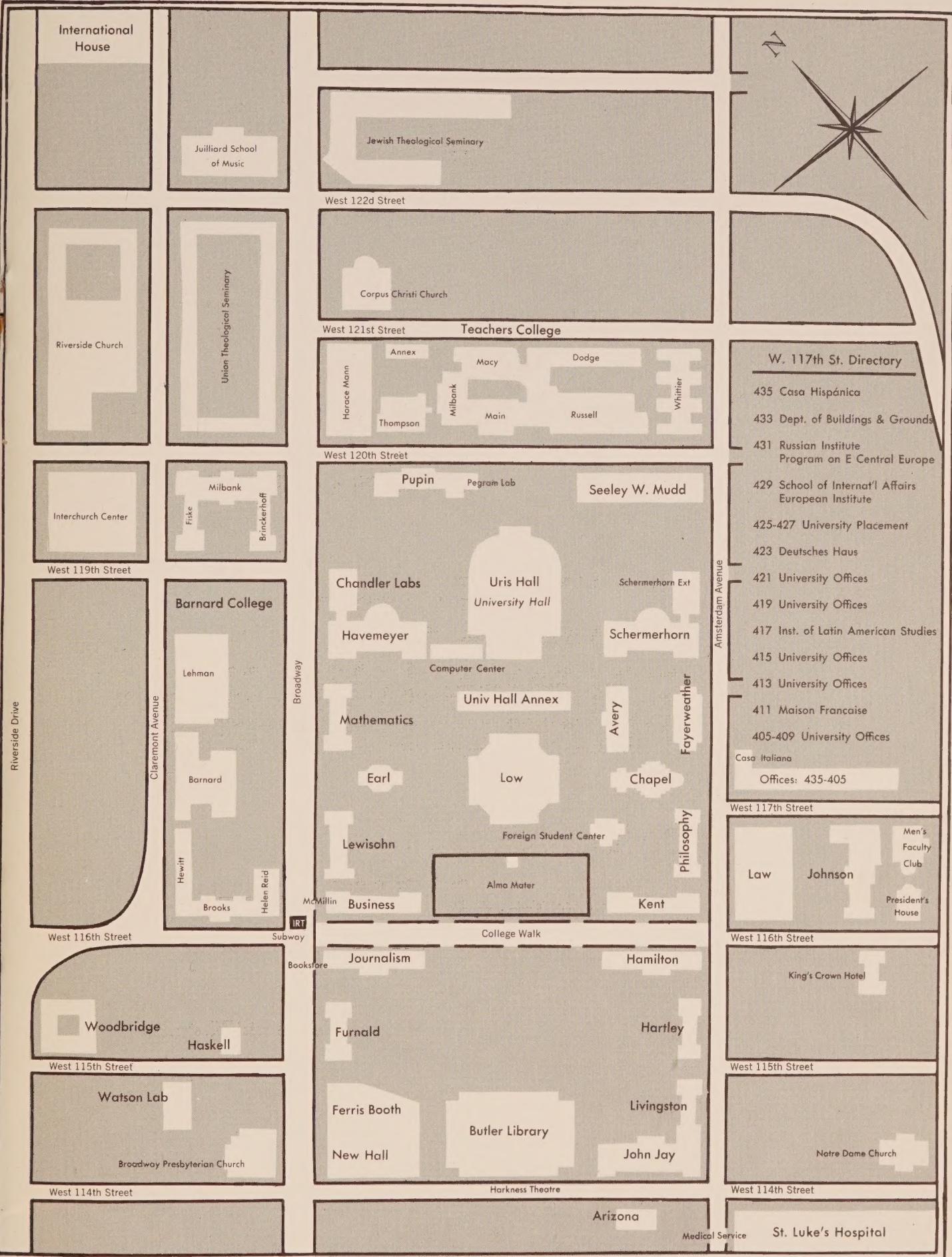
I, give and bequeath to Barnard College in the City of New York the sum of to be added to the General Endowment of the said Corporation.

For a Specific Purpose

I, give and bequeath to Barnard College in the City of New York the sum of to be used for the purposes of

..... to be known as the Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

COLUMBIA UNIVERSITY



The Morningside Campus & Environs

